



SEQUENCE LISTING

<110> Juha Punnonen, et al.

<120> NOVEL CO-STIMULATORY MOLECULES

<130> 0169.310US

<140> 09/888,324

<141> 2001-06-22

<150> 60/213,946

<151> 2000-06-23

<150> 60/241,245

<151> 2000-10-17

<160> 312

<170> PatentIn Ver. 2.1

<210> 1

<211> 891

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 1

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accaaaagag tgaaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaag gatagtaaaa tggtgctggc catcctgcct 240
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ccccgttattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
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agaaggctaa ttgctcaac ctctggaggt tttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atcacagctt cttgtgtctt 660
gtcaagtatg gagacttaac agtgtcacag accttctact ggcaagaatc caaaccacacc 720
ccttctgcta atcagcacct gacctggacc attattatcc cagtctcagc atttgggatt 780
tctgtgtatca ttgcagttat actaacatgc ctgacccgtca gaaatgtgc aatacgcaga 840
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<210> 2

<211> 900

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 2

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gtgaaagaaa tggcagcaact gtccctgtat tacaacattt ctatcgatga actggcgaga 180
atgcgcataat actggcagaa ggaccaacag atggtgctga gcatcatctc tggcaagtg 240
gaagtgtggc ctgagtacaa gaaccgcacc ttccccgaca tcattaacaa cctccctt 300
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gagaacgggt ctttcagacg ggagcacctg acctccgtga cactgtccat cagagctgac 420
tccctgtcc ctagataac tgacatttga catcccgccc ctaatgtgaa aaggataaga 480
tgctccgcct ctggaggtt tccagagcct cgcctcgccgt ggatggaaga tggagaagaa 540
ctaaacgccc tcaacacgac gggtgaccag gatggaca cggagctcta cagcgtcagc 600
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cagcttccat tctgggtcat tatcccagta agtggtgctt tggatgtcac tgcgttagtt 780
ctctactgcc tggcctgcag acatgttgcg aggtgaaaaa gaacaagaag gaatgaagag 840
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<210> 3

<211> 900

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

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gtgaaagaaa tggcagcaact gtccctgtat tacaacattt ctatcgatga actggcgaga 180
atgcgcataat actggcagaa ggaccaacag atggtgctga gcatcatctc tggcaagtg 240
gaagtgtggc ctgagtacaa aaaccgcacc ttccccgaca tcattaacaa cctccctt 300
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gagaacgggt ctttcagacg ggagcacctg acctccgtga cactgtccat cagagctgac 420
tccctgtcc ctagataac tgacatttga catcccgccc ctaatgtgaa aaggataaga 480
tgctccgcct ctggagattt tccagagcct cgcctcgccgt ggatggaaga tggagaagaa 540
ctaaacgccc tcaacacgac gggtgaccag gatggaca cggagctcta cagcgtcagc 600
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<210> 4

<211> 912

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

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acccaaaagag tgaaagaaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaaag gatagaaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtttatt 360
cagaagcctg atttggaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttggctcaac ctctggaggt tttccaaggc cccacctcta ctggggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgac ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt cgaggtggaa aagaacaaga 840
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tcctcggtc ga 912

<210> 5
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 5
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cagctttgg tgctactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
acccaaaagag tgaaagaaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaaag gatagaaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtttatt 360
cagaagcctg tttggaaagg ggcttataaa ctggagcacc tggcttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttggctcaac ctctggaggt tttccaaggc cccacctcta ctggggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgac ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctactttagg ctccgcgcaa 900
tcctcggtc ga 912

<210> 6
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

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cagctttgg tgctactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
acccaaaagag tgaaagaaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180

ctgacaagcc ttcggatcta ttggcaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaagcctg ttttgaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc gaaatccatc tcctaataatc 480
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aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
ccccccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttggtgctc 780
actgcggtag ttctctaccg cccggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
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tcctcgggct ga 912

<210> 7
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

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cagctttgg tgctcactgg tctttttac ttctgttcag gcatttcaccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaagcctg ttttgaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaaagg ctgtccccta tctactttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 8
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

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cagctttgg tgctcactgg tctttttac ttctgttcag gcatttcaccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaag gatagtaaaa tggtgctggc catcctgcct 240

ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaaggctg tttgaaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt ttccaaggc cccacctctg ctgggtggaa 540
aatggagaag aattaaatgc taccacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggattcaat gtgacaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcgttag ttctctactg cctggcctgc agacatgtt gtaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 9
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

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cagctttgg tgctcactgg tctttttac ttctgtttag gcattcacccaa aagagtgtg 120
accaaaagag tgaaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacaagg gcacctacac ctgcgtgggt 360
cagaaggctg tttgaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt ttccaaggc cccacctctg ctgggtggaa 540
aatggagaag aattaaatgc taccacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggattcaat gtgacaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcgttag ttctctactg cctggcctgc agacatgtt gtaggtggaa aagaacaaga 840
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tcctcgggct ga 912

<210> 10
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 10
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cagctttgg tgctcactgg tctttttac ttctgtttag gcattcacccaa aagagtgtg 120
accaaaagag tgaaaagaaac agtaatgcta tcctgtgatt acacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300

ccccgtattg tgatcctggc tctgcgcctg tcggacagtgcacac ctgtgttatt 360
cagaaggctg ttttgaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc 480
agaaggctaa ttgtctcaac ctctggaggt tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccatttgc atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc 780
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tcctcgggct ga 912

<210> 11
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 11
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gagatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcacc 120
aaagagtgtg 120
acccaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc 180
cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat 300
gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtgcacac ctgtgttatt 360
cagaaggctg ttttgaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc 480
agaaggctaa ttgtctcaac ctctggaggt tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccatttgc atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc 780
agaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 840
tcctcgggat ga 912

<210> 12
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 12
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gggatcacta ccacccaagc gcccattgcct ctggctctct 60
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aaagagtgtg 120
acccaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc 180
cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat 300
gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtgcacac ctgtgttatt 360

cagaaggctg ttttgaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctagcata actgacattg gacatccgc ccctaattgtg 480
aaaaggataa gatgctccgc ctctggaggt ttccagagc ctgcgcctcg ctggatggaa 540
gatggagaag aactaaacgc cgtcaacacg acgggtgacc aggatttgg aacggagctc 600
tacagcgtca gcagtgaact ggattccaaat gtgacaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatccag taagtgggtc tttggtgctc 780
actgcgttag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcggtc ga 912

<210> 13
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 13
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cagcttgg tgctcaactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tgggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggctg ttttgaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt ttcccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatccag taagtgggtc tttggtgctc 780
actgcgttag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
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tcctcggtc ga 912

<210> 14
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 14
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cagcttgg tgctcaactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaggaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tgggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggctg ttttgaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420

atcagagctg acttccctgt ccctaccata aatgatcttgc 480
agaaggctaa ttgtctcaac ctctggagggt tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctcccatgt atcagcttcc attctgggtc attatcccag taagtgggtgc tttggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc 780
agaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 840
tcctcgggct ga 912

<210> 15
<211> 909
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 15
atgggtcaca caatgaagtgggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagcttttgg tgctcactgg tctttttac ttctgttcag gcatcaccacccaaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacgcacactcactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagttacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacaagg gcacctacac ctgcgtggtt 360
cagaagaatg agaacgggtc tttcagacgg gagcacctga cttccgtgac actgtccatc 420
agagctgact tccctgtccc tagcataact gacattggac atcccgcctttaatgtgaaa 480
aggataagat gctccgcctc tgaggtttt ccagagcctc gcctcgccctg gatgaaagat 540
ggagaagaac taaacggcgtaaacacgcacg gttgaccagg atttggacac ggagctctac 600
agcgtcagca gtgaactggttcaatgtg acaaataacc acagcatcggtgtgtctcatc 660
aaatacgggg agctgtcggt gtcacagatc ttcccttggc gcaaaacccaa gcaggagcct 720
ccattgtatc agcttcatttctgggtcatttccctgttgc gttgtgtttt ggtgtctact 780
gcggtagttc tctactgccttgccttgcaga catgttgcga gttggaaaag aacaagaagg 840
aatgaagaga cagtgaaac tgggatcttgc 840
tcgggctga 909

<210> 16
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 16
atgggtcaca caatgaagtgggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagcttttgg tgctcactgg tctttttac ttctgttcag gcatcaccacccaaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatcactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagttacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtgc 360
cagaagcctg ttttggatggggatccatc ggttataaa ctggggatccatc tgggttccgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc 480

agaaggctaa tttgctcaac ctctggaggt tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc aggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 17
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 17
atgggtcaca caatgaagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagcttgg tgctcaactgg tctttttac ttctgtttag gcatcaccctt aaagagtgtg 120
accaaaagag tgaaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgactagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaaggctg ttttggaaagg ggcttataaa ctggagcacc tggcttcgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc gaaatccatc tcctaataatc 480
agaaggctaa tttgctcaac ctctggaggt tttccagagc ctcgcctcgc ctggatggaa 540
gatggagaag aactaaacgc cgtcaacacag acgggtgacc aggatttggc cacggagctc 600
tacagcgtca gcagtgaact ggatttcaat gtgacaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc aggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 18
<211> 903
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 18
atgggcacca cgctggggcc gggaaactcca ctggccaggt gtctcacacctt caagctctgc 60
ctgcttgg cgctggcggt tctccacttc tcttcaggtt tcagccaggt caccaagtcg 120
gtgaaaagaaa tggcgccact gtcctgtgtat tacaacattt ctatcgatga actggcgaga 180
atgcgcataat actggcagaa ggaccaacag atgggtgtga gcatcatctc tggcaagtgc 240
gaagtgtggc ctgagtacaa gaacccgacc atcaactgaca tgaacgataa ccccccgttatt 300
gtgatcctgg ctctgcgcct gtcggacagt ggcacccata cctgtgttatt tcagaaggctc 360
gtttgaaag gggcttataaa actgggagcac ctggcttccg tgaggttaat gatcagagct 420
gacttccctg tccctaccat aaatgatctt ggaaatccat ctcctaataat cagaaggctt 480
atttgctcaa cctctggagg tttccaagg cccacctctt actgggtggaa aatggagaa 540

gaattaaatg ctaccaacac aacagttcc caagatcctg gaactgagct ctacatgatt 600
agcagtgaac tggattcaa tgtgacaaat aaccacagca tcgtgtct catcaaatac 660
ggggagctgt cggtgtcaca gatcttccct tggagcaaac ccaaggcaggaa gcctccatt 720
gatcagcttc cattctgggt cattatccca gtaagtgggt ctttgggtct cactgcggta 780
gttctctact gcctggcctg cagacatgtt gcgaggtggaa aaagaacaag aaggaatgaa 840
gagacagtgg gaactgaaag gctgtccccc atctacttag gctctgcgca atcctcggc 900
tga 903

<210> 19
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 19
atgggtcaca caatgaagtg gggatcacta ccaccaagc gcccattgcct ctggctctct 60
cagctttgg tgctcactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagaaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatccctggc tctgcgcctt tcggacagtg gcacctacac ctgttttatt 360
cagaagcctg ttttggaaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa ttgcctcaac ctctggaggt tttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaaacc caagcaggag 720
cctcccttattt atcagcttcc attctgggtc attatccctt taagtgggtc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcgcaa 900
tcctcggc 912

<210> 20
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 20
atgggtcaca caatgaagtg gggatcacta ccaccaagc gcccattgcct ctggctctct 60
cagctttgg tgctcactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagaaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatccctggc actgcgcctt tcggacagtg gcacctacac ctgttttatt 360
cagaagcctg ttttggaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa ttgcctcaac ctctggaggt tttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600

tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgac ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctcccatg atcagcttcc attctggtc attatcccag taagtgtgc tttggtgctc 780
gctcggtag ttctctactg cctggcctgc agacatgttgcgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcggtctga 912

<210> 21
<211> 909
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 21
atgggtcaca caatgaagt gggatcaacta ccacccaagg gcccattgcct ctggctctct 60
cagcttgg tgctcaactgg tctttttac ttctgtttag gcattcacccc aaagagtgtg 120
accaaaaagag tgaaagaaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaaagtgc aggtgtggcc ttagtacaaa aaccgcaccc tcccccacat cattaacaac 300
ctctccctta tgatcctggc actgcgcctg tcggacaagg gcacctacac ctgcgtggtt 360
cagaagaatg agaacgggtc ttccagacgg gaggcacctga cctccgtgac actgtccatc 420
agagctgact tccctgtccc tagcataact gacattggac atcccggccc taatgtgaaa 480
aggataagat gctccgcctc cggagatttt ccagagcctc gcctcgcctg gatgaaagat 540
ggagaagaac taaacgcccgt caacacgcac gttgaccagg atttggacac ggagctctac 600
agcgtcagca gtgaactgga ttcaatgtg acaaataacc acagcatcggt gtgtctcatc 660
aaatacgggg agctgtcggt gtcacagatc ttcccttggc gcaaaacccaa gcaggagcct 720
ccattgtatc agcttcattt ctgggtcattt atcccagtaa gtgggtcttt ggtgctact 780
gtggtagttc tctactgcct ggctgcaga catgtgcga ggtggaaaag aacaagaagg 840
aatgaagaga cagtggaaac taaaaggctg tcccctatct acttaggctc tgccaaatcc 900
tcgggtctga 909

<210> 22
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 22
atggccaca cacggaggca ggaatatca ccattcaagt gtccataacctt caagttcttt 60
cagcttgg tgctggctgg tctttctcac ttctgtttag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctggggac 240
atgaatatat ggccccgagta caagaaccgg accatcttgc atatcaactaa taacctctcc 300
attgtgattc tggctctgac cccatctgac gagggcacat acgagtgtgt tgttctgaag 360
tataaaaaag atgcttcaa gcccccaac ctggctgaag tgacgttac agtcaaagct 420
gacttccctt caccttagtat atctgacttt gaaatccac cttctaaat tagaaggata 480
atttgctcaa cctctggagg tttcctgag cctcacctt cctggctggaa aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660

ggacattnaa gagtgaatca gaccttcaac tggatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcg taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaagggaaa gtgtacgccc tgtatga 867

<210> 23
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 23
atggccaca cacggaggca gggatatca ccatccaagt gtccataacct caatttctt 60
cagcttgg tgctggcttg tctttctcat ttctgtttag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggggaaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttgc atatcactaa taacctctcc 300
attgtgattc tggctctgca cccatctgac gaggcacaat acgagtgtgt tgttctgaag 360
tataaaaaag atgcttcaa gcgagaacac ctggctgaag tgacgttata agtcaaagct 420
gactcccta cacctagtat aactgacttt gaaatccac cttctaatacat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcgccctt cttgggttga aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660
ggacattnaa gagtgaatca gaccttcaac tggatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ctaatctcg taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaagggaaa gtgtacgccc tgtatga 867

<210> 24
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 24
atgagccaca cacggaggca gggatcatca ccatccaagt gtccgtaccc caagttctt 60
cagcttgg tgctggcttag tctttctcac ttctgtttag gtgttatcca catgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttgc atatcactaa taacctctcc 300
attgtgattc tggctctgca cccatctgac gaggcacaat acgagtgtgt tgttctgaag 360
tataaaaaag atgcttcaa gcgagaacac ctggctgaag tgatgttata cgtcaaagct 420
gactcccta cacctagtat aactgacttt gaaatccac cttctaatacat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcgccctt tctggcttga aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660
ggacattnaa gagtgaatca gaccttcaac tggatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ctaatctcg taaatggaaat ttttgtata 780
tgctgcctga cccactgttt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840

agaaggaaaa gtgtacaccc tgtatga

867

<210> 25
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 25
atggccaca cacggaggca gggatatca ccatccaagt gtccataacct caagttctt 60
cagctttgg tgctggctt tcttctcat ttctgtttag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatatat ggcccgagta caagaaccgg accatcttgc atatcaactaa taacctctcc 300
attgtgattc tggctctgac cccatctgac gaggcacat acgagtgtgt tgttctgaag 360
tataaaaaag acgcttcaa gcgggAACAC ctagctgaag tgacgttacat agtcaaagct 420
gacttcccta cacctagttt atctgacttt gaaattccaa cttctaataat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcaccttgc tcgggttggaa aatgggaa 540
gaaataaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaccc aatcgacat ttgtgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatcttgc gggcatttacc ttaatctcag caaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaagagcaa tgagagactg 840
agaaggaaaa gtgtacgccc tgtatga 868

<210> 26
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 26
atgagccaca cacggaggca gggatatca ccatccaagt gtccataacct caatttctt 60
cagctttgg tgctggcttag tcttctcat ttctgtttag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatatat ggcccgagta caagaaccgg accatcttgc atatcaactaa taacctctcc 300
attgtgattc tggctctgac cccatctgac gaggcacat acgagtgtgt tgttctgaag 360
tataaaaaag acgcttcaa gcgagaacac ctggctgaag tgatgttacat cgtcaaagct 420
gacttcccta cacctagttt atctgactttt gaaattccac cttctaataat tagaaggata 480
atttgctcaa cctccggagg tttccctgag cctcaccttgc cctggctggaa aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacagcc aatcacat ttgtgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatcttgc gggcatttacc ttaatctcag caaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga ggagaaggaa tgagacactg 840
agaaggaaaa gtgtacgccc tgtatga 867

<210> 27
<211> 865
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 27
atgggccaca cacggaggca ggaatatac ccaccaagt gtccataacct caatttcttt 60
cagctttgg tgctggcttg tctttctcat ttctgttcag gtgttatcca cgtgactaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgat gtccgggac 240
atgaatatac ggcccgagta caagaaccgg accatctttg atatcactaa taacctctcc 300
atttgattc tggctctgcg cccatctgac gagggcacat acgagtgtgt tggtctgaag 360
tatgaaaaag acgcttcaa gccccaaacac ctggctgaag tgatgttatac cgtcaaagct 420
gacttcccta cacctagtt aactgacttt gaaatccac cttctaacat tagaaggata 480
atttgctcaa cctctggagg tttcctgag cctcacctct cctggctgga aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacagcc aatcacagtt ttgtgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcag taaatggat ttttgtgata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaatga gacactgaga 840
aggaaaatgt tacgccccgt atgac 865

<210> 28
<211> 869
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 28
atgagccaca cacggaggca ggaatatac ccatcaagt gtccataacct caagttcttt 60
cagctttgg tgctggcttg tctttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgat gtctgggac 240
atgaatatac ggcccgagta caagaaccgg accatctttg atatcactaa taacctctcc 300
atttgattc tggctctgcg cccatctgac gagggcacat acgagtgtgt tggtctgaag 360
tatgaaaaag acgcttcaa gcgagaacac ctggctgaag tgatgttatac cgtcaaagct 420
gacttcccta cacctagtt aactgacttt gaaatccac cttctaacat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct tctggctgga aatggggaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc gatcgactt ttgtgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcag caaatggat ttttgtgata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaagagcaa tgagacactg 840
agaaggaaaa gtgtaccccc tttatgaaa 869

<210> 29
<211> 867
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 29

atgagccaca cacggaggca gggaatatca ccatccaagt gtccgtacctt caagttcttt 60
cagcttgg tgctggctag tcttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgaccatgtat gtctggggac 240
atgaatataat ggcggagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
atttgatttc tggctctgca cccatctgac gagggcacat acgagtgtgt tttctgttgaag 360
tataaaaaaag acgctttcaa gcgagaacac ctatgttgc tgacgttatac agtcaaagct 420
gactcccta cacctagtat aactgactttt gaaattccac cttctaaat taaaaggata 480
atttgctcaa cctccggagg tttcctgag cctcacctct cctggcttga aaatggggaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgttcatcaagtat 660
ggacatttaa gagtgaatca gacccatccac tggaaatatac ccaagcaaga gcattttcct 720
gataacccac tcccatctg ggcatttacc ttaatcttgc caaatggat ttttgatata 780
tgctgcctga cctactgtt tgcccaaga tgcagagaga ggagaaggaa tgagacactg 840
agaaggaaa gtgtacgccc tgtatga 867

<210> 30

<211> 868

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 30

atggccaca cacggaggca gggacatca ccatccaagt gtccgtacctt caagttcttt 60
cagcttgg tgctggcttgc tcttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctggggac 240
atgaatataat ggcggagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
atttgatttc tggctctgca cccatctgac gagggcacat acgagtgtgt tttctgttgaag 360
tataaaaaaag acgctttcaa gcgagaacac ctggcttgc tgatgttatac agtcaaagct 420
gactcccta cacctagtat aactgactttt gaaattccaa cttctaaat taaaaggata 480
atttgctcaa cctccggagg tttcctgag cctcacctct cctggcttga aaatggggaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgttcatcaagtat 660
ggacatttaa gagtgaatca gacccatccac tggaaatatac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg ggcatttacc ttaatcttgc caaatggat ttttgatata 780
tgctgcctga cctaccgtt tgcccaaga tgcagagaga gaaagagcaa tgagacactg 840
agaaggaaa gtgtacgccc tgtatgac 868

<210> 31

<211> 868

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic nucleotide sequence

<400> 31

atgggctaca cacggaggca gggAACATCA ccatccaagt gtccgtaccc 60
cagctttgg tgctggcttg tctttctcat ttctgttcag gtgttatcca cgtgaccagg 120
gaagtgaaag aagtggcaac actgtcctgt ggccacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatatat ggcccgagta caagaaccgg accatcttgc 300
attgtgattc tggctctgct cccatctgac gaggcacat acgagtgtgt tttctgttgaag 360
tatgaaaaaag acgcttcaaa gccccaaac 868
gacttcccta caccttagtat atctgacttt gaaattccaa cttctaataat tagaaggata 480
atttgctcaa cctctggagg tttcctgttag cctcacctct cttggcttga aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgggt ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgttcatcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcatttccct 720
gataaacctgc tcccatctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgtt tggcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaaaaag gtgtatgccc tgtataag

<210> 32

<211> 868

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic nucleotide sequence

<400> 32

atgagccaca cacggaggca gggAACATCA ccatccaagt gtccgtaccc 60
cagctttgg tgctggcttag tctttctcat ttctgttcag gtgttatcca cgtgaccagg 120
gaagtgaaag aagtggcaac actgtcctgt ggtctcaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatatat ggcccgagta caagaaccgg accatcttgc 300
attgtgattc tggctctgct cccatctgac gaggcacat acgagtgtgt tttctgttgaag 360
tatgaaaaaag acgcttcaaa gccccaaac 868
gacttcccta caccttagtat atctgacttt gaaattccac cttctaataat tagaaggata 480
atttgctcaa cctctggagg tttcctgttag cctcacctct cttggcttga aatggggaa 540
gaattaaatg gcatcaacac aacagttcc caagatcctg aaactgggt ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aatcgagtt ttgtgtgttcatcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcatttccct 720
gataaacctgc tcccatctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgtt tggcccaaga tgcagagaga ggaggaggaa tgagagactg 840
agaaggaaaaaag gtgtacaccc tgtatgag

<210> 33

<211> 867

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic nucleotide sequence

<400> 33
atgagccaca cacggaggca gggaaatatca ccatccaagt gtccataacct caatttcttt 60
cggtcttgg tgctggctag tctttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggcacat acgagtgtgt tggtctgaag 360
tatgaaaaag acgcttcaa gcgagaacac cttagtgaag tgacgttatac agtcaaagct 420
ggcttcccta cacctagtt aactgacttt gaaattccac cttctaaat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctt cctggctgaa aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacagcc aatcacagtt ttgtgtgtcatcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg gggcattacc ttaatctcag caaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtacgccc tgtatga 867

<210> 34
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 34
atgagccaca cacggaggca gggaaacatca ccatccaagt gtccataacct caagttcttt 60
cagctttgg tgctggctag tctttctcac ttctgttcag gtgttatcca catgaccaag 120
gaagtggaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggcacat acgagtgtgt tggtctgaag 360
tatgaaaaag acgcttcaa gcaggaacac ctggctgaag tgatgttatac cgtcaaagct 420
gacttcccta cacctagtt aactgacttt gaaattccac cttctaaat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctt tctggctgaa aaatggagag 540
gaattaaatg ccatcaacac aacagttcc caagaccctg aaactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagtt ttgtgtgtcatcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg gggcattacc ttaatctcag caaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtacaccc tgtatgtat 868

<210> 35
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 35
atgggctaca cacggaggca gggaaatatca ccatccaagt gtccataacct caagttcttt 60
cagctttgg tgctggcttgc tctttctcat ttctgttcag gtgttatcca cgtgaccaag 120

gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgat gtctgggac 240
atgaatatat ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tggctctgcg cccatctgac gaggcacat acgagtgtgt tgttctggag 360
tataaaaaag acgcttcaa gccccaaacac ctggctgaag tgacgttac agtcaaagct 420
gacttcccta cacctagtt atctgacttt gaaattccac cttctaacaat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct tctggctgga aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccaaacc tggatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcag caaatggaaat ttttgtgata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaagagcaa tgagagactg 840
agaaggaaaa gtgtacaccc tttatgat 868

<210> 36
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 36
atgagccaca cacggaggca gggatatca ccatccaagt gtccataacctt caagttcttt 60
cagcttgg tgctggcttg tctttctcat ttctgtttag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgat gtctgggac 240
atgaatatat ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tggctctgcg ctcatctgac gaggcacat acgagtgtgt tgttctgaag 360
tataaaaaag acgcttcaa gccccaaacac ctggctgaag tgacgttac agtcaaagct 420
gacttcccta cacctagtt aactgacttt gaaattccac cttctaacaat tagaaggata 480
atttgctcaa cctctggagg tttccctgag cctcacctct tctggctgga aaatggagaa 540
gaattaaatg ccatcagcac aacagttcc caagatcctg aactgagct ctacactgtt 600
agcagcaaac tggatttcaa tatgacaacc aatcgacgtt ttgtgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccaaacc tggatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ctaatctcag taaatggaaat ttttgtgata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaaggagcaa tgagagactg 840
agaaggaaaa gtgtacaccc tttatgaa 868

<210> 37
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 37
atggccaca cacggaggca gggatatca ccatccaagt gtccgtacctt caatttcttt 60
cagcttgg tgcttagctgg tctttctcac ttctgtttag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgat gtctgggac 240
atgaatatat ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300

atgtgattc tggctctgct cccatctgac gagggcacat acgagtgtgt tgttctggag 360
tataaaaag acgcttcaa gcgagaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagttat atctgacttt gaaattccaa cttctaata tagaaggata 480
atttgctcaa cctctggagg tttcctgag cctcacctct cctggctgga aatggagaa 540
gaattaaatg ccatcaacac aacagcttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660
ggacattnaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatcctg ggcattacc ttaatctcg caaatggaat ttttgtata 780
tgctgcctgg cctactgctt tgccccagga tgcagagaga gaaagagcaa tgagagactg 840
agaaggaaa gtgtacgccc tgtatga 868

<210> 38
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 38
atgggccaca cacggaggca gggaaatata ccatccaagt gtccataacct caagttcttt 60
cagcttgg tgctggcttg tctttctcat ctctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtctcaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgat gtctggggac 240
atgaatata ggcggagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
atttgattc tggctctgct cccatctgac gagggcacat acgagtgtgt tgttctgaag 360
tatgataaaag acgtttcaa gggaaacac ctggctgaag tgacgttgc agtcaaagct 420
gacttcccta cacctagttat atctgacttt gaaattccac cttctaata tagaaggata 480
atttgctcaa cctccggagg tttcctgag cctcacctct cctggctgga aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacagcc aatcacagtt ttgtgtgtct catcaagtat 660
ggacattnaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatcctg ggcattacc ctaatctcg taaatggaat ttttgtata 780
tgctgcctga cctaccgctt tgccccaga tgcagagaga gaaagagcaa tgagagactg 840
agaaggaaa gtgtacgccc tgtatga 867

<210> 39
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 39
atgggccaca cacggaggca gggaaacatca ccatccaagt gtccataacct caagttcttt 60
cagcttgg tgctggcttg tctttctcac ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgat gtctggggac 240
atgaatata ggcggagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
atcggtattc tggctctgct cccatctgac gagggcacat acgagtgtgt tgttctgaag 360
tataaaaag atgtttcaa gggaaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagttat atctgacttt gaaattccac cttctaata tagaaggata 480

atttgctcaa cctctggagg ttttccagag cctcacctct tctgggttggaa aaatggggaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatacgatc catcaagtat 660
ggacatttaa gagtgaatca gacccctcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatcctg ggcatttacc ttaatctcag caaatggaaat ttttgtgata 780
tgctgcctga cctaccgctt tgccccaaga tgcagagaga gaaagagcaa tgagacactg 840
agaaggaaaa gtgtacgccc tgtatga 867

<210> 40
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 40
atgggccaca cacggaggca gggAACATCA ccatccaagt gtccgtaccc caagttcttt 60
cagctcttgg tggatggcttg tctttctcat ttctgttccat gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtc tgactatgat gtctggggac 240
atgaatatat ggcccgagta caagaaccgg accatctttg atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggccacat acgagtgtgt tggttctgaa 360
tatgaaaaaaag acgcttcaa gcgagaacac ctatgttgc tgatgttatac cgtcaaagct 420
gacttcccta cacctagtat atctgacttt gaaattccaa cttctaaatata tagaaggata 480
atttgctcaa cctctggagg ttttccagag cctcacctct tctgggttggaa aaatggggaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatacgatc catcaagtat 660
ggacatttaa gagtgaatca gacccctcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatcctg ggcatttacc ttaatctcag caaatggaaat ttttgtgata 780
tgctgcctga cctactgctt tgccccaaga tgcagagaga gaaaggagggaa tgagagattg 840
agaaggaaaa gtgtatgccc tgtatgag 868

<210> 41
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 41
atgggccaca cacggaggca gggAAATATCA ccatccaagt gtccataccct caagttcttt 60
cagctcttgg tggatggcttg tctttctcat ttctgttccat gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtc tgactatgat gtctggggac 240
atgaatatat ggcccgagta caagaaccgg accatctttg atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggccacat acgagtgtgt tggttctgaa 360
tatgaaaaaaag acgcttcaa gcgagaacac ctggcttgc tgatgttatac cgtcaaagct 420
gacttcccta cacctagtat atctgacttt gaaattccac cttctaaatata tagaaggata 480
atttgctcaa cctctggagg ttttccctgag cctcacctct cctggcttggaa aaatggggaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatgtgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatacgatc catcaagtat 660

ggacatttaa gagtgaatca gaccttcaac tggatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatcctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga ggagaaggaa tgagacactg 840
agaaggaaa gtgtacgccc tgtatgac 868

<210> 42
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 42
atggccaca cacggaggca gggatatca ccatccaagt gtccataacct caagttcttt 60
cagcttgg tgctggctgg tcttcctcat ctctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctggggac 240
atgaatataat ggcggagta caagaaccgg accatctttg atatcactaa taacctctcc 300
attgtgattc tggctctgctgccc ccatctgac gaggcacat acgagtgtgt tttctgttgaag 360
tataaaaaag atgcttcaa gccccacac ctggctgaag tgatgttata cgtcaaagct 420
gacttcccta cacctagtat aactgacttt gaaatccac cttctaaatc tagaaggata 480
atttgctcaa cctctggagg tttctgttgc cccacactt cctggcttga aaatggagaa 540
gaattaaatg ccatcagcac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggataacaa ccaagcaaga gcatttcct 720
gataacctgc tcccatcctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cccactgttt tgcccaaga tgcagagaga gaaagaggaa tgagagactg 840
agaaggaaa gtgtacgccc tgtatgac 868

<210> 43
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 43
atgagccaca cacggaggca gggacatca ccatccaagt gtccataacct caagttcttt 60
cagcttgg tgctggctgg tctttctcat ctctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctggggac 240
atgaatataat ggcggagta caagaaccgg accatctttg atatcactaa taacctctcc 300
attgtgattc tggctctgctgccc ccatctgac gaggcacat acgagtgtgt tttctgttgaag 360
tataaaaaag acgcttcaa gcgagaacac ctggctgaag tgatgttata cgtcaaagct 420
gacttcccta cacctagtat atctgacttt gaaatccaa cttctaaatc tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacactt cctggcttga aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacagcc aatcacagtt ttgtgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggataacac ccaagcaaga gcatttcct 720
gataacctgc tcccatcctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840

agaaggaaaa gtgtacgccc tgtatgat

868

<210> 44
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 44
atggccaca cacggaggca gggatatca ccatccaagt gtccgtaccc caatttcttt 60
cagctttgg tgctggcttg tcttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgtga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgat gtctggggac 240
atgaatataat gccccgagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
atttgatttc tggctctgca cccatctgac gaggcacat acgagtgtgt tggtctgaag 360
tataaaaaaag acgcttcaa gcgggaacac ctggctgaag tgatgttac agtcaaagct 420
gacttcccta cacctagtt aactgacttt gaaattccac cttctaaacat tagaaggata 480
atttgctcag cctctggagg tttccagag cctcacctct tctggctgga aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatgtgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtt catcaggat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcattttccct 720
gataacctgc tcccatctg ggcattacc ctaatctcag taaatgaaat tttgtgata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaagagcaa tgagagactg 840
agaaggaaaa gtgtacgccc tgtatgat 867

<210> 45
<211> 868
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 45
atggccaca cacggaggca gggacatca ccatccaagt gtccgtaccc caatttcttt 60
cagctttgg tgctggcttg tcttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgtga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgat gtctggggac 240
atgaatataat gccccgagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
atttgatttc tggctctgca cccatctgac gaggcacat acgagtgtgt tggtctgaag 360
tataaaaaaag acgcttcaa gcggaaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagtt aactgacttt gaaattccac cttctaaacat tagaaggata 480
atttgctcaa cctccggagg tttccagag cctcacctct tctggctgga aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctataactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcattttccct 720
gataacctgc tcccatctg ggcattacc ttaatctcag taaatgaaat tttgtgata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaagagcaa tgagagactg 840
agaaggaaaa gtgtacgccc tgtatgag 868

<210> 46
<211> 867
<212> DNA
<213> Papio sp.

<400> 46
atggccaca cacggaggca ggaatatca ccatccaagt gtccataacct caagttcttt 60
cagcttgg tgctggcttg tcttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
attgtgatcc tggctctgac cccatctgac gaggcacat acgagtgtgt tgttctgaag 360
tataaaaaag atgcttcaa gcgagaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagtt aactgacttt gaaattccac cttctaatacat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct tctgggttggaa aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aatcacagtt ttgtgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg gcccattacc ctaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgttt tgccccaaga tgcagagaga gaagaaggaa tgagacattg 840
agaaggaaa gtgtacgccc tttatga 867

<210> 47
<211> 867
<212> DNA
<213> Pongo pygmaeus

<400> 47
atggccaca cacggaggca ggaacatca ccatccaagt gtccataacct caatttcttt 60
cagcttgg tgctggcttag tcttctcac ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
attgtgatcc tggctctgac cccatctgac gaggcacat atgagtgtgt tgttctgaag 360
tataaaaaag acgcttcaa gcggaaacac ctggctgaag tgacgttac cgtcaaagct 420
gacttcccta cacctagtt atctgacttt gaaattccaa cttctaataat tagaaggatg 480
atttgctcaa cctctggagg tttccagag cctcacctct cctgggttggaa aatggagaa 540
gaattaaatg ccatcagcac aacagttcc caagatcctg aaactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgttt tgccccaaga tgcagagaga gaaggagcaa tgagagactg 840
agaaggaaa gtgtacgccc tttatga 867

<210> 48
<211> 296
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 48
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys

1	5	10	15
Leu Trp Leu Ser Gln Leu Leu Val	Leu Thr Gly Leu Phe Tyr Phe Cys		
20	25	30	
Ser Gly Ile Thr Pro Lys Ser Val	Thr Lys Arg Val Lys Glu Thr Val		
35	40	45	
Met Leu Ser Cys Asp Tyr Asn Thr	Ser Thr Glu Glu Leu Thr Ser Leu		
50	55	60	
Arg Ile Tyr Trp Gln Lys Asp Ser	Lys Met Val Leu Ala Ile Leu Pro		
65	70	75	80
Gly Lys Val Gln Val Trp Pro Glu	Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90	95	
Met Asn Asp Asn Pro Arg Ile Val	Ile Leu Ala Leu Arg Leu Ser Asp		
100	105	110	
Ser Gly Thr Tyr Thr Cys Val Ile	Gln Lys Pro Val Leu Lys Gly Ala		
115	120	125	
Tyr Lys Leu Glu His Leu Ala Ser	Val Arg Leu Met Ile Arg Ala Asp		
130	135	140	
Phe Pro Val Pro Thr Ile Asn Asp	Leu Gly Asn Pro Ser Pro Asn Ile		
145	150	155	160
Arg Arg Leu Ile Cys Ser Thr Ser	Gly Gly Phe Pro Arg Pro His Leu		
165	170	175	
Tyr Trp Leu Glu Asn Gly Glu	Leu Asn Ala Thr Asn Thr Thr Leu		
180	185	190	
Ser Gln Asp Pro Glu Thr Lys	Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200	205	
Phe Asn Met Thr Ser Asn His	Ser Phe Leu Cys Leu Val Lys Tyr Gly		
210	215	220	
Asp Leu Thr Val Ser Gln Thr Phe	Tyr Trp Gln Glu Ser Lys Pro Thr		
225	230	235	240
Pro Ser Ala Asn Gln His Leu	Thr Trp Thr Ile Ile Ile Pro Val Ser		
245	250	255	
Ala Phe Gly Ile Ser Val Ile	Ile Ala Val Ile Leu Thr Cys Leu Thr		
260	265	270	
Cys Arg Asn Ala Ala Ile Arg	Arg Gln Arg Arg Glu Asn Glu Val Glu		
275	280	285	
Met Gln Ser Cys Ser Gln Ser Pro			
290	295		

<210> 49
<211> 299
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 49
Met Gly His Thr Leu Arg Pro Gly Thr Pro Leu Pro Arg Cys Leu His
1 5 10 15
Leu Lys Leu Cys Leu Leu Ala Leu Ala Gly Leu His Phe Ser Ser
20 25 30
Gly Ile Ser Gln Val Thr Lys Ser Val Lys Glu Met Ala Ala Leu Ser
35 40 45
Cys Asp Tyr Asn Ile Ser Ile Asp Glu Leu Ala Arg Met Arg Ile Tyr
50 55 60
Trp Gln Lys Asp Gln Gln Met Val Leu Ser Ile Ile Ser Gly Gln Val
65 70 75 80
Glu Val Trp Pro Glu Tyr Lys Asn Arg Thr Phe Pro Asp Ile Ile Asn
85 90 95
Asn Leu Ser Leu Met Ile Leu Ala Leu Arg Leu Ser Asp Lys Gly Thr
100 105 110
Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe Arg Arg Glu
115 120 125
His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Ser Pro Val Pro
130 135 140
Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys Arg Ile Arg
145 150 155 160
Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala Trp Met Glu
165 170 175
Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val Asp Gln Asp Leu
180 185 190
Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp Phe Asn Val Thr
195 200 205
Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu Leu Ser Val
210 215 220
Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro Pro Ile Asp
225 230 235 240
Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala Leu Val Leu
245 250 255

Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val Ala Arg Trp
260 265 270

Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu Arg Leu Ser
275 280 285

Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295

<210> 50

<211> 299

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 50

Met Gly His Thr Leu Arg Pro Gly Thr Pro Leu Pro Arg Cys Leu His
1 5 10 15

Leu Lys Leu Cys Leu Leu Leu Ala Leu Ala Gly Leu His Phe Ser Ser
20 25 30

Gly Ile Ser Gln Val Thr Lys Ser Val Lys Glu Met Ala Ala Leu Ser
35 40 45

Cys Asp Tyr Asn Ile Ser Ile Asp Glu Leu Ala Arg Met Arg Ile Tyr
50 55 60

Trp Gln Lys Asp Gln Gln Met Val Leu Ser Ile Ile Ser Gly Gln Val
65 70 75 80

Glu Val Trp Pro Glu Tyr Lys Asn Arg Thr Phe Pro Asp Ile Ile Asn
85 90 95

Asn Leu Ser Leu Met Ile Leu Ala Leu Arg Leu Ser Asp Lys Gly Thr
100 105 110

Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe Arg Arg Glu
115 120 125

His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe Pro Val Pro
130 135 140

Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys Arg Ile Arg
145 150 155 160

Cys Ser Ala Ser Gly Asp Phe Pro Glu Pro Arg Leu Ala Trp Met Glu
165 170 175

Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val Asp Gln Asp Leu
180 185 190

Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp Phe Asn Val Thr
195 200 205

Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu Leu Ser Val
210 215 220

Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro Pro Ile Asp
225 230 235 240

Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala Leu Val Leu
245 250 255

Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val Ala Arg Trp
260 265 270

Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu Arg Leu Ser
275 280 285

Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295

<210> 51

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 51

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp

130	135	140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile		
145	150	155
160		
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu		
165	170	175
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val		
180	185	190
Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp.		
195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
240		
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300
<210> 52		
<211> 303		
<212> PRT		
<213> Artificial Sequence		
<220>		
<223> Description of Artificial Sequence: Synthetic peptide		
<400> 52		
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys		
1	5	10
15		
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys		
20	25	30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val		
35	40	45
Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu		
50	55	60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro		
65	70	75
80		

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

 Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

 Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125

 Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

 Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

 Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

 Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
 180 185 190

 Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

 Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220

 Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240

 Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255

 Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270

 Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285

 Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 53
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 53
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

Tyr Trp Leu Glu Asn Gly Glu Leu Asn Ala Thr Asn Thr Thr Leu
 180 185 190

Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Arg Pro Ala Cys Arg His
 260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 54
 <211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 54

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Leu Asn Ala Thr Asn Thr Thr Val
180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His

260

265

270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 55

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 55

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Cys Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 56

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 56

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Lys Gly Thr Tyr Thr Cys Val Val Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe	Pro	Val	Pro	Thr	Ile	Asn	Asp	Leu	Gly	Asn	Pro	Ser	Pro	Asn	Ile
145															160
Arg	Arg	Leu	Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Arg	Pro	His	Leu
				165				170							175
Tyr	Trp	Leu	Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Thr	Asn	Thr	Thr	Val
				180				185							190
Ser	Gln	Asp	Pro	Gly	Thr	Glu	Leu	Tyr	Met	Ile	Ser	Ser	Glu	Leu	Asp
	195					200									205
Phe	Asn	Val	Thr	Asn	Asn	His	Ser	Ile	Val	Cys	Leu	Ile	Lys	Tyr	Gly
	210					215									220
Glu	Leu	Ser	Val	Ser	Gln	Ile	Phe	Pro	Trp	Ser	Lys	Pro	Lys	Gln	Glu
	225					230				235					240
Pro	Pro	Ile	Asp	Gln	Leu	Pro	Phe	Trp	Val	Ile	Ile	Pro	Val	Ser	Gly
				245				250							255
Ala	Leu	Val	Leu	Thr	Ala	Val	Val	Leu	Tyr	Cys	Leu	Ala	Cys	Arg	His
				260				265							270
Val	Ala	Arg	Trp	Lys	Arg	Thr	Arg	Arg	Asn	Glu	Glu	Thr	Val	Gly	Thr
				275			280								285
Glu	Arg	Leu	Ser	Pro	Ile	Tyr	Leu	Gly	Ser	Ala	Gln	Ser	Ser	Gly	
				290			295								300

<210> 57
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 57															
Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
1				5					10					15	
Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Leu	Thr	Gly	Leu	Phe	Tyr	Phe	Cys
									20		25			30	
Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val
								35		40			45		
Met	Leu	Ser	Cys	Asp	Tyr	Asn	Thr	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu
								50		55			60		
Arg	Ile	Tyr	Trp	Gln	Lys	Asp	Ser	Lys	Met	Val	Leu	Ala	Ile	Leu	Pro
								65		70			75		80
Gly	Lys	Val	Gln	Val	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Thr	Asp

85	90	95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp		
100	105	110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala		
115	120	125
Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp		
130	135	140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile		
145	150	155
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu		
165	170	175
Tyr Trp Leu Glu Asn Gly Glu Leu Asn Ala Thr Asn Thr Thr Val		
180	185	190
Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300

<210> 58
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 58
 Met Gly His Thr Met Lys Trp Arg Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15
 Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

 Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

 Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80

 Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

 Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

 Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125

 Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

 Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

 Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

 Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
 180 185 190

 Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

 Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220

 Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240

 Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255

 Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270

 Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285

 Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 59
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 59

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val
145 150 155 160

Lys Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu
165 170 175

Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
180 185 190

Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
195 200 205

Ser Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 60

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 60

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly

210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300

<210> 61
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 61		
Met Gly His Thr Met Lys Trp Arg Ser Leu Pro Pro Lys Arg Pro Cys		
1	5	10
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys		
20	25	30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val		
35	40	45
Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu		
50	55	60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro		
65	70	75
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90	95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp		
100	105	110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala		
115	120	125
Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp		
130	135	140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile		
145	150	155
		160

Arg	Arg	Leu	Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Arg	Pro	His	Leu
															165
															170
															175
Tyr	Trp	Leu	Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Thr	Asn	Thr	Thr	Leu
															180
															185
															190
Ser	Gln	Asp	Pro	Gly	Thr	Glu	Leu	Tyr	Met	Ile	Ser	Ser	Glu	Leu	Asp
															195
															200
															205
Phe	Asn	Val	Thr	Asn	Asn	His	Ser	Ile	Val	Cys	Leu	Ile	Lys	Tyr	Gly
															210
															215
															220
Glu	Leu	Ser	Val	Ser	Gln	Ile	Phe	Pro	Trp	Ser	Lys	Pro	Lys	Gln	Glu
															225
															230
															235
															240
Pro	Pro	Ile	Asp	Gln	Leu	Pro	Phe	Trp	Val	Ile	Ile	Pro	Val	Ser	Gly
															245
															250
															255
Ala	Leu	Val	Leu	Thr	Ala	Val	Val	Leu	Tyr	Cys	Leu	Ala	Cys	Arg	His
															260
															265
															270
Val	Ala	Arg	Trp	Lys	Arg	Thr	Arg	Arg	Asn	Glu	Glu	Thr	Val	Gly	Thr
															275
															280
															285
Glu	Arg	Leu	Ser	Pro	Ile	Tyr	Leu	Gly	Ser	Ala	Gln	Ser	Ser	Gly	
															290
															295
															300

<210> 62
 <211> 302
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
															1
															5
															10
															15
Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Leu	Thr	Gly	Leu	Phe	Tyr	Phe	Cys
															20
															25
															30
Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val
															35
															40
															45
Met	Leu	Ser	Cys	Asp	Tyr	Asn	Ala	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu
															50
															55
															60
Arg	Ile	Tyr	Trp	Gln	Lys	Asp	Ser	Lys	Met	Val	Leu	Ala	Ile	Leu	Pro
															65
															70
															75
															80
Gly	Lys	Val	Gln	Val	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Thr	Asp
															85
															90
															95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Lys Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
115 120 125

Arg Arg Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe
130 135 140

Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys
145 150 155 160

Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala
165 170 175

Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val Asp
180 185 190

Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp Phe
195 200 205

Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu
210 215 220

Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro
225 230 235 240

Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala
245 250 255

Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val
260 265 270

Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu
275 280 285

Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 63

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 63

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val

35	40	45
Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu		
50	55	60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro		
65	70	75
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90	95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp		
100	105	110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala		
115	120	125
Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp		
130	135	140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile		
145	150	155
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu		
165	170	175
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val		
180	185	190
Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300

<210> 64
 <211> 303
 <212> PRT
 <213> Artificial Sequence
 <220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 64

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro Arg Leu
165 170 175

Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
180 185 190

Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 65
<211> 300
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 65
Met Gly His Thr Leu Arg Pro Gly Thr Pro Leu Pro Arg Cys Leu His
1 5 10 15

Leu Lys Leu Cys Leu Leu Leu Ala Leu Ala Gly Leu His Phe Ser Ser
20 25 30

Gly Ile Ser Gln Val Thr Lys Ser Val Lys Glu Met Ala Ala Leu Ser
35 40 45

Cys Asp Tyr Asn Ile Ser Ile Asp Glu Leu Ala Arg Met Arg Ile Tyr
50 55 60

Trp Gln Lys Asp Gln Gln Met Val Leu Ser Ile Ile Ser Gly Gln Val
65 70 75 80

Glu Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp Met Asn Asp
85 90 95

Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp Ser Gly Thr
100 105 110

Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala Tyr Lys Leu
115 120 125

Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp Phe Pro Val
130 135 140

Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile Arg Arg Leu
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu Tyr Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe Asn Val
195 200 205

Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu Leu Ser
210 215 220

Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro Pro Ile
225 230 235 240

Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala Leu Val
245 250 255

Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val Ala Arg
260 265 270

Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu Arg Leu
275 280 285

Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 66

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 66

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Pro Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu

165	170	175
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val		
180	185	190
Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300

<210> 67
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 67		
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys		
1	5	10
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys		
20	25	30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val		
35	40	45
Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu		
50	55	60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro		
65	70	75
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90	95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp		
100	105	110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125
 Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140
 Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160
 Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175
 Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
 180 185 190
 Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205
 Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220
 Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240
 Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255
 Ala Leu Val Leu Ala Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270
 Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285
 Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 68
 <211> 302
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 68
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15
 Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30
 Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

Met	Leu	Ser	Cys	Asp	Tyr	Ser	Thr	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu
50															60
Arg	Ile	Tyr	Trp	Gln	Lys	Asp	Ser	Lys	Met	Val	Leu	Ala	Ile	Leu	Pro
65															80
Gly	Lys	Val	Gln	Val	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Phe	Pro	Asp
															95
Ile	Ile	Asn	Asn	Leu	Ser	Leu	Met	Ile	Leu	Ala	Leu	Arg	Leu	Ser	Asp
															110
Lys	Gly	Thr	Tyr	Thr	Cys	Val	Val	Gln	Lys	Asn	Glu	Asn	Gly	Ser	Phe
															125
Arg	Arg	Glu	His	Leu	Thr	Ser	Val	Thr	Leu	Ser	Ile	Arg	Ala	Asp	Phe
															140
Pro	Val	Pro	Ser	Ile	Thr	Asp	Ile	Gly	His	Pro	Ala	Pro	Asn	Val	Lys
145															160
Arg	Ile	Arg	Cys	Ser	Ala	Ser	Gly	Asp	Phe	Pro	Glu	Pro	Arg	Leu	Ala
															175
Trp	Met	Glu	Asp	Gly	Glu	Glu	Leu	Asn	Ala	Val	Asn	Thr	Thr	Val	Asp
															190
Gln	Asp	Leu	Asp	Thr	Glu	Leu	Tyr	Ser	Val	Ser	Ser	Glu	Leu	Asp	Phe
															205
Asn	Val	Thr	Asn	Asn	His	Ser	Ile	Val	Cys	Leu	Ile	Lys	Tyr	Gly	Glu
															220
Leu	Ser	Val	Ser	Gln	Ile	Phe	Pro	Trp	Ser	Lys	Pro	Lys	Gln	Glu	Pro
225															240
Pro	Ile	Asp	Gln	Leu	Pro	Phe	Trp	Val	Ile	Ile	Pro	Val	Ser	Gly	Ala
															255
Leu	Val	Leu	Thr	Val	Val	Val	Leu	Tyr	Cys	Leu	Ala	Cys	Arg	His	Val
															270
Ala	Arg	Trp	Lys	Arg	Thr	Arg	Arg	Asn	Glu	Glu	Thr	Val	Gly	Thr	Glu
															285
Arg	Leu	Ser	Pro	Ile	Tyr	Leu	Gly	Ser	Ala	Gln	Ser	Ser	Gly		
290															300

<210> 69
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 69

Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 70
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 70
Met Gly Tyr Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Leu Cys
20 25 30

Ser Gly Val Ile His Val Thr Asn Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Gly Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Met Val Leu Thr Met Met Tyr Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Leu Thr Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala Trp Met
165 170 175

Lys Asp Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Val Ser Gln Asp
180 185 190

Pro Gly Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Ser Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 71
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 71
Met Ser His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Met Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
 180 185 190
 Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205
 Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220
 Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
 225 230 235 240
 Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
 245 250 255
 Ile Phe Val Ile Cys Cys Leu Thr His Cys Phe Ala Pro Arg Cys Arg
 260 265 270
 Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val His Pro Val
 275 280 285

<210> 72
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 72
 Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15
 Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
 20 25 30
 Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45
 Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60
 Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80
 Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95
 Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110
 Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg

115	120	125
Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr		
130	135	140
Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile		
145	150	155
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Gly Leu		
165	170	175
Glu Asn Gly Glu Glu Ile Asn Ala Ile Asn Thr Thr Ala Ser Gln Asp		
180	185	190
Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met		
195	200	205
Thr Pro Asn Arg Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg		
210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro		
225	230	235
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly		
245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg		
260	265	270
Glu Arg Lys Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val		
275	280	285

<210> 73

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 73

Met Ser His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr			
1	5	10	15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys			
20	25	30	

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu			
35	40	45	

Ser Cys Gly Leu Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile			
50	55	60	

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80
 Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95
 Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110
 Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125
 Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140
 Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
 145 150 155 160
 Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
 165 170 175
 Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
 180 185 190
 Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205
 Thr Ala Asn His Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220
 Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240
 Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
 245 250 255
 Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
 260 265 270
 Glu Arg Arg Arg Asn Glu Thr Leu Arg Arg Glu Ser Val Arg Pro Val
 275 280 285

<210> 74
 <211> 287
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 74

Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Pro Lys Cys Pro Tyr
 1 5 10 15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
 145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
 165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
 180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205

Thr Ala Asn His Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
 245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
 260 265 270

Glu Arg Arg Asn Glu Thr Leu Arg Arg Glu Ser Val Arg Pro Val
 275 280 285

<210> 75

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 75

Met Ser His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asp Arg Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg

260

265

270

Glu Arg Lys Ser Asn Glu Thr Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 76
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 76
Met Ser His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Lys Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Pro Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Thr Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 77

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 77

Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Glu	Pro	His	Leu	Ser	Trp	Leu
165														175	
Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Val	Ser	Gln	Asp
180														190	
Pro	Glu	Thr	Glu	Leu	Tyr	Thr	Val	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met
195														205	
Thr	Thr	Asn	His	Ser	Phe	Met	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg
210														220	
Val	Asn	Gln	Thr	Phe	Asn	Trp	Asn	Thr	Pro	Lys	Gln	Glu	His	Phe	Pro
225														240	
Asp	Asn	Leu	Leu	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Val	Asn	Gly
245														255	
Ile	Phe	Val	Ile	Cys	Cys	Leu	Thr	Tyr	Arg	Phe	Ala	Pro	Arg	Cys	Arg
260														270	
Glu	Arg	Lys	Ser	Asn	Glu	Arg	Leu	Arg	Arg	Glu	Ser	Val	Arg	Pro	Val
275														285	

<210> 78

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 78

Met	Gly	Tyr	Thr	Arg	Arg	Gln	Gly	Thr	Ser	Pro	Ser	Lys	Cys	Pro	Tyr
1														15	

Leu	Lys	Phe	Phe	Gln	Leu	Leu	Val	Leu	Ala	Cys	Leu	Ser	His	Phe	Cys
														20	
														25	
														30	

Ser	Gly	Val	Ile	His	Val	Thr	Arg	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu
														35	
														40	
														45	

Ser	Cys	Gly	His	Asn	Val	Ser	Val	Glu	Glu	Leu	Ala	Gln	Thr	Arg	Ile
														50	
														55	
														60	

His	Trp	Gln	Lys	Glu	Lys	Lys	Met	Val	Leu	Thr	Met	Met	Ser	Gly	Asp
														65	
														70	
														75	

Met	Asn	Ile	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Phe	Asp	Ile	Thr
														85	
														90	
														95	

Asn	Asn	Leu	Ser	Ile	Val	Ile	Leu	Ala	Leu	Arg	Pro	Ser	Asp	Glu	Gly
														100	
														105	
														110	

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg

115	120	125
Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr		
130	135	140
Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile		
145	150	155
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu		
165	170	175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp		
180	185	190
Pro Glu Thr Gly Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met		
195	200	205
Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg		
210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro		
225	230	240
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly		
245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg		
260	265	270
Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Cys Pro Val		
275	280	285

<210> 79
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 79		
Met Ser His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr		
1	5	10
15		
Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys		
20	25	30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu		
35	40	45
Ser Cys Gly Leu Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile		
50	55	60
Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp		
65	70	75
80		

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr			
85	90	95	
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly			
100	105	110	
Thr Tyr Glu Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg			
115	120	125	
Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr			
130	135	140	
Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile			
145	150	155	160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu			
165	170	175	
Glu Asn Gly Glu Glu Leu Asn Gly Ile Asn Thr Thr Val Ser Gln Asp			
180	185	190	
Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met			
195	200	205	
Thr Thr Asn Arg Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg			
210	215	220	
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro			
225	230	235	240
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly			
245	250	255	
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg			
260	265	270	
Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val His Pro Val			
275	280	285	

<210> 80
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 80
 Met Ser His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15
 Leu Asn Phe Phe Arg Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

 Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

 His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

 Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

 Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

 Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

 Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Gly Phe Pro Thr
 130 135 140

 Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
 145 150 155 160

 Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
 165 170 175

 Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
 180 185 190

 Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205

 Thr Ala Asn His Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220

 Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240

 Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly
 245 250 255

 Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
 260 265 270

 Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
 275 280 285

<210> 81
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic

peptide

<400> 81
Met Ser His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15
Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
20 25 30
Ser Gly Val Ile His Met Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60
Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Gln
115 120 125
Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140
Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
165 170 175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190
Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205
Thr Thr Asn His Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly
245 250 255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270
Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val His Pro Val
275 280 285

<210> 82
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 82
Met Gly Tyr Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15
Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60
Tyr Trp Gln Lys Glu Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110
Thr Tyr Glu Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125
Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140
Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
165 170 175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190
Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205
Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly

245

250

255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Lys Ser Asn Glu Arg Leu Arg Arg Glu Ser Val His Pro Val
275 280 285

<210> 83

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 83

Met Ser His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Ser Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn Arg Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 84

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 84

Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Gly Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Glu	Pro	His	Leu	Ser	Trp	Leu			
														165	170	175		
Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Ala	Ser	Gln	Asp			
															180	185	190	
Pro	Glu	Thr	Glu	Leu	Tyr	Thr	Val	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met			
															195	200	205	
Thr	Thr	Asn	His	Ser	Phe	Met	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg			
															210	215	220	
Val	Asn	Gln	Thr	Phe	Asn	Trp	Asn	Thr	Pro	Lys	Gln	Glu	His	Phe	Pro			
															225	230	235	240
Asp	Asn	Leu	Leu	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Ala	Asn	Gly			
															245	250	255	
Ile	Phe	Val	Ile	Cys	Cys	Leu	Ala	Tyr	Cys	Phe	Ala	Pro	Gly	Cys	Arg			
															260	265	270	
Glu	Arg	Lys	Ser	Asn	Glu	Arg	Leu	Arg	Arg	Glu	Ser	Val	Arg	Pro	Val			
															275	280	285	

<210> 85

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 85

Met	Gly	His	Thr	Arg	Arg	Gln	Gly	Ile	Ser	Pro	Ser	Lys	Cys	Pro	Tyr			
															1	5	10	15

Leu	Lys	Phe	Phe	Gln	Leu	Leu	Val	Leu	Ala	Cys	Leu	Ser	His	Leu	Cys		
															20	25	30

Ser	Gly	Val	Ile	His	Val	Thr	Lys	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu		
															35	40	45

Ser	Cys	Gly	Leu	Asn	Val	Ser	Val	Glu	Glu	Leu	Ala	Gln	Thr	Arg	Ile		
															50	55	60

His	Trp	Gln	Lys	Glu	Lys	Met	Val	Leu	Thr	Met	Met	Ser	Gly	Asp				
															65	70	75	80

Met	Asn	Ile	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Phe	Asp	Ile	Thr		
															85	90	95

Asn	Asn	Leu	Ser	Ile	Val	Ile	Leu	Ala	Leu	Arg	Pro	Ser	Asp	Glu	Gly		
															100	105	110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Asp Lys Asp Ala Phe Lys Arg

115	120	125
Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr		
130	135	140
Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile		
145	150	155
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu		
165	170	175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp		
180	185	190
Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met		
195	200	205
Thr Ala Asn His Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg		
210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro		
225	230	235
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly		
245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Arg Phe Ala Pro Arg Cys Arg		
260	265	270
Glu Arg Lys Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val		
275	280	285

<210> 86
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 86		
Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr		
1	5	10
15		
Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys		
20	25	30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu		
35	40	45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile		
50	55	60
His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp		
65	70	75
80		

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr			
85	90	95	
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly			
100	105	110	
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg			
115	120	125	
Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr			
130	135	140	
Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile			
145	150	155	160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu			
165	170	175	
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp			
180	185	190	
Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met			
195	200	205	
Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg			
210	215	220	
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro			
225	230	235	240
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly			
245	250	255	
Ile Phe Val Ile Cys Cys Leu Thr Tyr Arg Phe Ala Pro Arg Cys Arg			
260	265	270	
Glu Arg Lys Ser Asn Glu Thr Leu Arg Arg Glu Ser Val Arg Pro Val			
275	280	285	

<210> 87
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 87
 Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15
 Leu Lys Phe Phe Gln Leu Leu Val Met Ala Cys Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45
 Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60
 His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80
 Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95
 Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110
 Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125
 Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140
 Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
 145 150 155 160
 Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
 165 170 175
 Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
 180 185 190
 Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205
 Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220
 Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240
 Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
 245 250 255
 Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
 260 265 270
 Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Cys Pro Val
 275 280 285

<210> 88
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 88

Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly Leu Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Thr Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 89
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 89
Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15
Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Pro His Leu Cys
20 25 30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60
His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125
Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140
Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Val Ser Gln Asp
180 185 190
Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205
Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220
Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
225 230 235 240
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr His Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Lys Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 90
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 90
Met Ser His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Leu Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr	Ala	Asn	His	Ser	Phe	Val	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg
210					215					220					
Val	Asn	Gln	Thr	Phe	Asn	Trp	Asn	Thr	Pro	Lys	Gln	Glu	His	Phe	Pro
225					230				235				240		
Asp	Asn	Leu	Leu	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Val	Asn	Gly
					245				250				255		
Ile	Phe	Val	Ile	Cys	Cys	Leu	Thr	Tyr	Cys	Phe	Ala	Pro	Arg	Cys	Arg
					260			265				270			
Glu	Arg	Arg	Arg	Asn	Glu	Arg	Leu	Arg	Arg	Glu	Ser	Val	Arg	Pro	Val
					275			280				285			

<210> 91
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 91
 Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
 145 150 155 160

Ile Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu

	165	170	175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp	180	185	190
Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met	195	200	205
Thr Thr Asn His Ser Phe Met Cys Leu Ile Arg Tyr Gly His Leu Arg	210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro	225	230	235
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly	245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg	260	265	270
Glu Arg Lys Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val	275	280	285

<210> 92
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 92
 Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Ala Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Lys Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 93

<211> 288

<212> PRT

<213> Papio sp.

<400> 93

Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly

100	105	110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg		
115	120	125
Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr		
130	135	140
Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile		
145	150	155
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu		
165	170	175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp		
180	185	190
Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met		
195	200	205
Thr Thr Asn His Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg		
210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro		
225	230	235
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly		
245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg		
260	265	270
Glu Arg Arg Arg Asn Glu Thr Leu Arg Arg Glu Ser Val Arg Pro Val		
275	280	285
<210> 94		
<211> 288		
<212> PRT		
<213> Pongo pygmaeus		
<400> 94		
Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr		
1	5	10
15		
Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys		
20	25	30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu		
35	40	45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile		
50	55	60
Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp		
65	70	75
80		

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95
 Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110
 Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125
 Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140
 Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Met
 145 150 155 160
 Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
 165 170 175
 Glu Asn Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Val Ser Gln Asp
 180 185 190
 Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205
 Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220
 Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240
 Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
 245 250 255
 Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
 260 265 270
 Glu Arg Arg Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
 275 280 285

<210> 95
 <211> 912
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<220>
 <221> modified_base
 <222> (213)
 <223> A, T, C, G, other or unknown

<400> 95
 atgggtcaca caatgaagtg gggatcacta ccacccaagc gccccatgcct ctggctct 60
 cagcttttgg tgctcactgg tctttttac ttctgtttag gcatcaccac aaagagtgtg 120

acccaaaagag tgaaagaaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcgaaag gatagtaaaa tgntgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgtacca tcactgacat gaacgataac 300
ctccgtattg tgatccctggc tctgcgcctg tcggacagtg gcacacctac ctgttttatt 360
cagaaggctg atttggaaagg ggcttataaa ctggagcacc tgacttcctg gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt tttccaaggc cccacctcta ctggggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtt ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 96
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 96
atgggtcaca caatgaagtg gggatcacta ccacccaagt gcccattgcct ctggctctct 60
cagcttttgg tgctcaactgg tcttttttac ttctgtttag gcatcaccaccc aaagagtgtg 120
acccaaaagag tgaaagaaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatccctggc tctgcgcctg tcggacagtg gcacacctac ctgttttatt 360
cagaaggctg tttggaaagg ggcttataaa ctggagcacc tgacttcctg gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt tttccaaggc cccacctcta ctggggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aaccgaaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcggtt ga 912

<210> 97
<211> 930
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<220>
<221> modified_base
<222> (929)
<223> A, T, C, G, other or unknown

<400> 97
atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctct 60
cagctttgg tgctcactgg tctttttac ttctgtttag gcatcaccac aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaaaaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagaaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatcctggc tctgcccctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggcctg ttttggaaagg ggcttataaa ctggagcacc tgacttccgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa ttggctcaac ctctggaggt ttcccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacacaca acagttccc aagatcctg aaccaagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaaacc caagcaggag 720
cctccatttgc atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgtc 780
actgcggtag ttctctactg cccggcctgc agacatgtt ggggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tctcgggctg aggtaccaag cttaagttta 930

<210> 98
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 98
atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctct 60
cagctttgg tgctcactgg tctttttac ttctgtttag gcatcaccac aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaaaaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagaaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatcctggc tctgcccctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggcctg ttttggaaagg ggcttataaa ctggagcacc tggcttccgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa ttggctcaac ctctggaggt ttcccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacacaca acagttccc aagatcctg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaaacc caagcaggag 720
cctccatttgc atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgtc 780
actgcggtag ttctctactg cccggcctgc agacatgtt ggggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tctcgggctg ga 912

<210> 99
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 99

atgggtcaca caatgaagt gggatcacta ccacccaagc gcccatgcct ctggctccct 60
cagctttgg tgctcactgg tctttttac ttctgtttag gcatcaccgg aaagagtgtg 120
acaaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtg gcacccatc ctgtgttatt 360
cagaaggcctg ttttggaaagg ggcttataaa ctggagcacc tggcttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt ttcccaaggc cccacctcta ctggttggaa 540
aatggagaag aattaaatgc taccacacaca acagttccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat tgggtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atttccctt ggagcaaacc caagcaggag 720
cctcccaatttgc atcagcttcc attccgggtc attatcccaag taagtgggtc tttgggtctc 780
actgcgatag ttctctactg cctggcctgc agacatgtt cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 100

<211> 912

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 100

atgggtcaca caatgaagt gggatcacta ccacccaagc gcccatgcct ctggctctct 60
cagctttgg tgctcactgg tctttttac ttctgtttag gcatcaccgg aaagagtgtg 120
acaaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtg gcacccatc ctgtgttatt 360
cagaaggcctg ttttggaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt ttcccaaggc cccacctcta ctggttggaa 540
aatggagaag aattaaatgc taccacacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atttccctt ggagcaaacc caagcaggag 720
cctcccaatttgc atcagcttcc attccgggtc attatcccaag taagtgggtc tttgggtctc 780
actgcgatag ttctctactg cctggcctgc agacatgtt cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcgcaa 900
tcctcgggct ag 912

<210> 101

<211> 909

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 101

atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctctcc 60
cagctttgg tgctactgg tctttttac ttctgttgc gcatcaccac aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcca tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagaaaaa tgggtgcgtgc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatccctggc tctgcgcctg tcggacagtg gcacctacac ctgcgtgggt 360
cagaagaatg agaacgggtc tttcagacgg gagcacctga cctccgtgac actgtccatc 420
agagctgact tccctgtccc tagcataact gacattggac atcccgcctt taatgtgaaa 480
aggataagat gctccgcctc tgagggtttt ccagagcctc gcctcgccctg gatgaaagat 540
ggagaagaac taaacgcgtt caacacaacg gttgaccagg atttggacac ggagctctac 600
agcgtcagca gtgagctgga ttcaatgtg acaaataacc acagcatgt gtgtctcatc 660
aaatacgggg agctgtcggt gtcacagatc ttcccttggc gcaaaccac gcaggagcct 720
ccattgtatc agcttcatt ctgggtcatt atcccagtaa gtgggtctt ggtgctact 780
gcggtagttc tctactgcct ggccgtcaga catgttgcga ggtggaaaag aacaagaagg 840
aatgaagaga cagtggaaac tgaaaggctg tcccttatct acttaggctc tgcgaatcc 900
tcgggctga 909

<210> 102
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 102
atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctttgg tgctactgg tctttttac ttctgttgc gcatcaccac aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagaaaaa tgggtgcgtgc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatccctggc tctgcgcctg tcggacacgg gcacctacac ctgtgttatt 360
cagaaggctg ttttggaaagg ggcttataaa ctggggcacc tggctccgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa ttggctcaac ctctggaggt tttccaaaggc cccacccctta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaaacc caaggaggag 720
cctccattt atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt gggatggaa aagaacgaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 103
<211> 891
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 103
atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctctct 60

cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcaccac 120
acccaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtgc acacccatc ctgttttatt 360
cagaagcctg tttgaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt ttcccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atcacaagctt cttgtgtctt 660
gtcaagtatg gagacttaac agtgtcacag accttctact ggcaagaatc caaaccacc 720
ccttcgtcta atcagcacct gacctggacc attattatcc cagtctcagc atttgggatt 780
tctgtatca ttgcagttat actaacatgc ctgacccgtca gaaatgctgc aatacgcaga 840
cagagaaggg agaatgaagt gaaatgcaa agttgtctc agtctccata g 891

<210> 104
<211> 892
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 104
atgggtcaca caatgaagtgggatcaacttccaccaaggccatgccttggctctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcaccac 120
acccaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtgc acacccatc ctgttttatt 360
cagaagcctg tttgaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt ttcccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atcacaagctt cttgtgtctt 660
gtcaagtatg gagacttaac agtgtcacag accttctact ggcaagaatc caaaccacc 720
ccttcgtcta atcagcacct gacctggacc attattatcc cagtctcagc atttgggatt 780
tctgtatca ttgcagttat actaacatgc ctgacccgtca gaaatgctgc aatacgcaga 840
cagagaaggg agaatgaagt gaaatgcaa agttgtctc agtctccatg ag 892

<210> 105
<211> 828
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 105
atgggtcaca caatgaagtgggatcaacttccaccaaggccatgccttggctctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcaccac 120
acccaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtctggc catcctgcct 240

ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacaagg gcacctacac ctgtgttatt 360
cagaagcctg tttgaaagg ggcttataaa ctggagcacc tgacctccgt gacactgtcc 420
atcagagctg acttccctgt ccctagcata actgacattg gacatcccgc ccctaattgtg 480
aaaaggataa gatgctccgc ctctggaggt tttccagagc ctcgcctcgc ctggatggaa 540
gatggagaag aactaaacgc cgtcaacacg acgggtgacc aggatttggaa cacggagctc 600
tacagcgtca gcagtgaact ggatttcaat gcgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attgtcccag taagtgggtc tttggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtga 828

<210> 106
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 106
atgggtcaca caatgaagtg gggatcacta ccacccaagg gcccattgcct ctggctctct 60
cagcttttgg tgctcaactgg tctttttac ttctgtttag gcatcaccaccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaagcctg tttgaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgtcaac ctctggaggt tttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacacca acactgtccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcacaa 900
tcctcggttga 912

<210> 107
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 107
atgggtcaca caatgaagtg gggatcacta ccacccaagg gcccattgcct ctggctctct 60
cagcttttgg tgctcaactgg tctttttac ttctgtttag gcatcaccaccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaagcctg tttgaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420

atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaata 480
agaaggctaa ttgtctaac ctctggaggt ttccaaggc cccacctcta ctggggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgcgtgtc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtc 780
actgcggtag ttctctactg cctggcctgc agacatgtt gtaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtcccta tctacttagg ctctgcgcaa 900
tcctcgggct ag 912

<210> 108
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 108
atgggtcaca caatgaagt gggatcacta ccaccaagg gcccattgcct ctgggtctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcacc 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcaactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagt gacac 360
cagaaggctg tttgaaagg ggcttataaa ctggagcacc tggcttcgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaata 480
agaaggctaa ttgtctaac ctctggaggt ttccaaggc cccacctcta ctggggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgcgtgtc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtc 780
actgcggtag ttctctactg cctggcctgc agacatgtt gtaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtcccta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 109
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 109
atgggtcaca caatgaagt gggatcacta ccaccaagg gcccattgcct ctgggtctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcacc 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcaactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagt gacac 360
cagaaggctg atttggaaagg ggcttataaa ctggagcacc tgacttcgt gaggtaatg 420
atcagagctg acttccctgt cccttagcata actgacattt gacatccgc ccctaattgt 480

aaaaggataa gatgctccgc ctctggagat tttccagagc ctcgcctcgc ctggatggaa 540
gatggagaag aactaaacgc cgtcaacacg acggttgacc aggatttgg aacggagctc 600
tacagcgtca gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctcccatgt atcagcttcc attctgggtc attatcccag taagtggtgc tttgggtgctc 780
actgcgttag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtcccccta tctactttagg ctctgcgca 900
tcctcggtt ga 912

```
<210> 110
<211> 913
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 110
atgggtcaca caatgaagt gggatcacta ccacccaagc gccccatgcct ctggctctct 60
cagcttttgg tgctcaactgg tcttttttac ttctgttcag gcataccccc aaagagtgtg 120
acccaaaagag taaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaag gatagtaaaa tgggtctggc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtatttgc tgatcctggc tctgcgcctg tcggacagtg gcacccatcac ctgtgttatt 360
cagaaggcctg tttgaaaagg ggcttataaa ctggagcacc tggcttccgt gaggttaatg 420
atcagagctg actccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgtcaac ctctggaggt ttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagtttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact gggttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagaaaacc caagcaggag 720
cctccatttgc atcagcttcc attctgggtc attatcccaag taagtgggtc tttgggtgtctc 780
actgcgttag ttctctactg cctggcctgc agacatgtt cggagttggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgca 900
tcctcggttgc gag 913

```
<210> 111
<211> 912
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

```
<220>
<221> modified_base
<222> (827)
<223> A, T, C, G, other or unknown
```

```
<400> 111
atgggtcaca caatgaagt gggatcacta ccacccaagc gccccatgcct ctggctctct 60
cagcttttgg tgctcaactgg tcttttttac ttctgttcag gcatcaccccc aaagagtgtg 120
acccaaaagag taaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaaagcc ttccggatcta ttggcaaaaq qataqtaaaa ttagfcttaac catcctggct 240
```

ggaaaagtgc aggtgtggcc ttagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg ttttgaagg ggcttataaa ctggagcacc tggcttctgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggattcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctcccatgg atcagcttcc attctgggtc attatcccag taagtgggtc tttggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtngaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctactttagg ctctgcgcaa 900
tcctcgggct ag 912

<210> 112
<211> 882
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 112
atgggccaca cgctgaggcc gggaaactcca ctgcccaggt gtctacacctt caagctctgc 60
ctgctttgg cgctggcggt tctccacttc tcttcaggtt tcagccaggc caccaagtcg 120
gtgaaagaaa tggcaggact gtccctgtat tacaacattt ctatcgatgt aactggcgaga 180
atgcgcataat actggcagaa ggaccaacag atgggtctgtc gcatcatctc tggcaagtg 240
gaggtgtggc ctgagtacaa gaaccgcacc atcactgaca tgaacgataa ccccccgtatt 300
gtgatcctgg ctctgcgcct gtcggacagt ggcacccata cctgtgttat tcagaaggct 360
gtttgaaag gggcttataa accggagcac ctggcttccg tgaggttaat gatcagagct 420
gacttccctg tccctaccat aaatgatctt ggaaatccat ctcctaatat cagaaggcta 480
atttgctcaa cctctggagg ttttccaagg ccccacctct actgggttggaaatggagaa 540
gaattaaatg ctaccaacac aacactgtcc caagatcctg aaaccaagcttacatgatt 600
agcagtgaac tggatttcaa catgacaagg aatcacagct tcttgggttctgtcaagtat 660
ggagacttaa cagtgtcaca gaccccttac tggcaagaat ccaaaaccaac cccttctgtc 720
aatcagcacc tgacctggac cattattatc ccagtcctcag catttggat ttctgtgtatc 780
attgcagttt tactaacatg cctgaccctgc agaaatgctg caatacgcag acagagaagg 840
gagaatgaag tggaaatgca aagttgtctt cagtcctcat ag 882

<210> 113
<211> 906
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 113
atgggtcaca caatgaagtgc gggatcacta ccaccaaggc gcccattgcct ctggctctct 60
cagctttgg tgctcactgg tctttttac ttctgttccag gcatcaccctt aaagagtgtg 120
accaaaagag tggaaagaaac agtaatgctt tcctgtgtt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatctt tggcaaaaag gatagaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc ttagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatccaggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttattc 360

cagaaggctg ttttgaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctactgat ctggaaatc catctctaa tatcagaagg 480
ctaatttgct caacctctgg agttttcca aggcccacc tctactgggt ggaaaatgga 540
gaagaattaa atgctaccaa cacaacagt tcccaagatc ctggaaactga gctctacatg 600
attagcagtg aactggattt caatgtgaca aataaccaca gcatcgtgtg tctcatcaa 660
tacggggagc tgcgggtgc acagatctc ccttgagca aaccaagca ggagccccc 720
attgatcagc ttccattctg ggtcattatc ccagtaagt gtgcttgggt gctcaactg 780
gtagttctct actgcctggc ctgcagacat gttgcaggt ggaaaagaac aagaaggaat 840
gaagagacag tggaaactga aaggctgtcc cctatctact taggctctgc gcaatcctcg 900
ggctga 906

<210> 114
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 114
atgggtcaca caatgaagt gggatcacta ccaccaagc gcccattgc ctggctct 60
cagctcttgg tgctcaactgg tctttttac ttctgtttag gcatcaccac 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tggtgctg 120
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggctg ttttgaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa tttgctcaac ctctggaggt tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctg 120
cctccattt atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt gtaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 115
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 115
atgggtcaca caatgaagt gggatcacta ccaccaagc gcccattgc ctggctct 60
cagctcttgg tgctcaactgg tctttttac ttctgtttag gcatcaccac 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tggtgctg 120
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggctg ttttgaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420

atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa tttgctcaac ctctggaggt tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaaacc caagcaggag 720
cctcccatcg atcagcttcc attctgggtc attatcccag taagtgggtc tttggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctactttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 116
<211> 910
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 116
atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcattcacccc aaagagtgtg 120
acccaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagaaaaa tgggtgctggc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcaactgacat gaacgataac 300
ccccgtattt tgatccctggc tctgcgcctg tcggacagtg gcacctacac ctgcgtggtt 360
cagaagaatg agaacgggtc tttcagacgg gggcacctga cttccgtgac actgtccatc 420
agagctgact tccctgtccc tagcataact gacattggac atcccgcctt taatgtgaaa 480
aggataagat gtcggccctc tgagatattt ccagagcctc gcctcgccctg gatgaaagat 540
ggagaagaac taaacggcgtaa acacacgacg gttgaccagg atttggacac ggagctctac 600
agcgtcagca gtgaactggg ttcaatgtg acaaataacc acagcatcg gtgtctcatc 660
aaatacgggg agctgtcggt gtcacagatc ttcccttggg gcaaaacccaa gcaggagcct 720
ccattgtatc agcttcattt ctgggtcattt atccctgatggatgtt ggtgtctactt 780
gcggtagttc tctactgcctt ggcctgcaga catgttgcga ggtggaaaag aacaagaagg 840
aatgaagaga cagtggaaac tgaaaggctg tcccctatct acttaggctc tgcgcaatcc 900
tcgggctgag 910

<210> 117
<211> 903
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 117
atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcattcacccc aaagagtgtg 120
acccaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagaaaaa tgggtgctggc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcaactgacat gaacgataac 300
ccccgtattt tgatccctggc tctgcgcctg tcggacagtg gcacctacac ctgtgtttt 360
cagaaggctg tttgaaagg ggcttataaa ctggggcacc tggcttccgt gaggtaatg 420
atcagagctg acttccctgt ccctagcata actgacattt gacatccgc ccctaatgtg 480

aaaaggataa gatgctccgc ctctggagat tttccagagc ctcgcctcgc ctggatggaa 540
gatggagaag aactaaacgc cgtaacacg acggtttgg acacggagct ctacagcgctc 600
agcagtgaac tggatttcaa tggacaaat aaccacagca tcgtgtgtct catcaaatac 660
ggggagctgt cggtgtcaca gatctccct tggagcaaac ccaaggcaggaa gcctccctt 720
gatcagctc cattctgggt cattatccca gtaagtggtg ctttggtgct cactgcggta 780
gttctctact gcctggcctg cagacatgtt gcgagggtgaa aagaacaag aaggaatgaa 840
gagacagtgg gaactgaaag gctgtccct atctacttag gctctgcgca accctcgccc 900
tga 903

<210> 118
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 118
atgggtcaca caatggagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctcttgg tgctcactgg tctttttac ttctgtttag gcatcaccctt aaagagtgtg 120
accaaaagag tggaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc ttagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattt tgatccttggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggctg ttttggaaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa tttgctcaac ctctggaggt tttccaaaggc cccacctcta ctgggttagaa 540
aatggagaag aattaaatgc taccacacca acactgtccc aagatcctga aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaaacc caagcaggag 720
cctcccttattt atcagcttcc attctgggtc attatccctg taagtggtg tttggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt cgaggtggaa aagaacaaga 840
aggaatgaaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcgca 900
tcctcggtt ga 912

<210> 119
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 119
atgggtcaca caatggagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctcttgg tgctcactgg tctttttac ttctgtttag gcatcaccctt aaagagtgtg 120
accaaaagag tggaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc ttagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattt tgatccttggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggctg ttttggaaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa tttgctcaac ctctggaggt tttccagagc ctcgcctcgc ctggatggaa 540

gatggagaag aactaaacgc cgtcaacacg acgggtgacc aggatttggc cacggagctc 600
tacagcgtca gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc aggttggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctactttagg ctctgcgcaa 900
tcctcggtc ga 912

<210> 120
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 120
atgggtcaca caatgaagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagcttgg tgctactgg tctttttac ttctgtttag gcatcaccacc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccgtatcta ttggcaaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg ttttggaaagg ggcttataaa ctggagcacc tggcttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc gaaatccatc tcctaatatc 480
agaaggctaa ttgtctcaac ctctggaggt ttcccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc aggttggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctactttagg ctctgcgcaa 900
tcctcggtc ga 912

<210> 121
<211> 913
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 121
atgggtcaca caatgaagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagcttgg tgctactgg tctttttac ttctgtttag gcatcaccacc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccgtatcta ttggcaaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg atttggaaagg ggcttataaa ctggagcacc tggacttccgt gaggttaatg 420
atcagagctg acttccctgt cccttagcata actgacatttgc gacatcccgc ccctaatgtg 480
aaaaggataa gatgctccgc ctctggagat ttccagagc ctgcgcctgc ctggatggaa 540
gatggagaag aactaaacgc cgtcaacacg acgggtgacc aggatttggc cacggagctc 600

tacagcgtca gcagtgaact ggattcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcggtc gag 913

<210> 122
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 122
atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctctc 60
cagctcttgg tgctcactgg tctttttac ttctgttcag gcataccccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagaaaaa tgggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatccctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg atttggaaagg ggcttataaaa ctggaggcacc tggcttccgt gaggttaatg 420
atcagagctg acttccctgt ccctagcata actgacattt gacatccgc ccctaattgt 480
aaaaggataa gatgtccgc ctctggagat ttccagagc ctgcgcctgc ctggatggaa 540
gatggggaaag aactaaacgc cgtcaacacgc acgggtgacc aggatttggc cacggagctc 600
tacagcgtca gcagtgaact ggattcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagcgggtc tttgggtctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcggtc ag 912

<210> 123
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 123
atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctctc 60
cagctcttgg tgctcactgg tctttttac ttctgttcag gcataccccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagaaaaa tgggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatccctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg ttttggaaagg ggcttataaaa ctggaggcacc tggcttccgt gaggttaatg 420
atcagagctg acttccctgt ccctagcata aatgatcttgc gaaatccatc tcctaataatc 480
agaaggctaa ttgcgtcaac ctctggaggt ttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacacaca acagttccc aagatccgg aactgagctc 600
tacatgatta gcagtgaact ggattcaat gtgacaaaata accacagcat cgtgtgtctc 660

atcaaatacg gggagctgac ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccattg atcagcttcc attctgggtc attatcccag taagtggc tttgggtc 780
actgcgttag ttctctactg cctggcctgc agacatgttgc ggggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctactttagg ctccgcgcaa 900
tcctcggtc ga 912

<210> 124
<211> 909
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 124
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cagctttgg tgctcactgg tctttttac ttctgtttag gcatcaccgg aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaaa aaccgcaccc tcccccacat cattaacaac 300
ctctccctta tgatcctggc actgcgcctg tcggacaagg gcacctacac ctgcgtggtt 360
cagaagaatg agaacgggtc ttccagacgg gggcacctga cctccgtgac actgtccatc 420
agagctgact tccctgtctc tagcataact gacattggac atcccggccc taatgtgaaa 480
aggataagat gctccgcctc tgaggtttt ccagagcctc gcctcgccctg gatgaaagat 540
ggagaagaac taaacggcgtaa acacacgac gttgaccagg atttggacac ggagctctac 600
agcgtcagca gtgaactgga ttcaatgtg acaaataacc acagcattgt gtgtctcatc 660
aaatacgggg agctgtcggt gtcacagatc ttcccttggc gcaaaacccaa gcaggagcct 720
cccatgtatc agcttcattt ctgggtcattt atcccagtaa gtgggtcttt ggtgtctact 780
gcgttagttc tctactgcct ggctgcaga catgtgcga ggtggaaaag aacaagaagg 840
aatgaagaga cagtggaaac tgaaaggctg tccctatct acttaggctc tgcgcaatcc 900
tcgggtcga 909

<210> 125
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 125
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cagctttgg tgctcactgg tctttttac ttctgtttag gcatcaccgg aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaaa aaccgcaccc tcaactgacat gaacgataac 300
cccggtattt tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggcctg ttttggaaagg ggcttataaa ctggagcacc tgacttccgt gaggtaatg 420
atcagagctg acttccctgt ccctagcata actgacattt gacatccgc ccctaatttg 480
aaaaggataa gatgtccgc ctctggaggt tttccagagc ctgcgcctgc ctggatggaa 540
gatggagaag aactaaacgc cgtcaacacag acgggtgacc aggatttggc cacggagctc 600
tacagcgtca gcagtgaact ggatttcaat gtgacaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgac ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720

cctcccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 126
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 126
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accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tgggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacagtg gcacccatc ctgttttatt 360
cagaaggctg tttgaaagg ggcttataaa ctggagcacc tggcttcgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc gaaatccatc tcctaataatc 480
agaaggctaa ttgcgtcaac ctctggaggt ttcccaaggc cccacccatc ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaaacc caagcaggag 720
cctcccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 127
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

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accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tgggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacagtg gcacccatc ctgttttatt 360
cagaaggctg tttgaaagg ggcttataaa ctggagcacc tggcttcgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc gaaatccatc tcctaataatc 480
agaaggctaa ttgcgtcaac ctctggaggt ttcccaaggc cccacccatc ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctgg aaccaagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaaacc caagcaggag 720
cctcccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttgggtgctc 780

actgcggcag ttctctactg cctggcctgc agacatgttgcgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
tcctcggtc ag 912

<210> 128
<211> 903
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 128
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cagctttgg tgctactgg tctttttac ttctgttcag gcatcacc 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatcctggc tctgcgcctg tcggacagtgc acctgacatc ctgtgttatt 360
cagaaggcctg ttttaaaagg ggcttataaa ctggagcacc tggctccgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc 480
agaaggctaa ttggctcagg ttttccaagg ccccacctt actgggttggaa 540
gaattaaatg ctaccaacac aacagtttcc caagatcctg gaactgagctt 600
agcagtgaac tggatttcaa tggatcataat aaccacagca tcgtgtgtt 660
ggggagctgt cgggtcaca gatcttccct tggagcaaac ccaaggcagg 720
gatcagcttc cattctgggt cattatccca gtaagtgggtt ctttgggtct cactgcggta 780
gttctctact gcctggcctg cagacatgtt gcgaggtggaa 840
gagacagtgg gaaactgaaag gctgtccct atctacttag gctctgcga atcctcggtc 900
tga 903

<210> 129
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 129
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cagctttgg tgctactgg tctttttac ttctgttcag gcatcacc 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatcctggc actgcgcctg tcggacaccc 360
cagaaggcctg ttttggaaagg ggcttataaa ctggagcacc tggctccgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc 480
agaaggctaa ttggctcaac ctctggaggt tttccaaaggcccacccatc ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaata accacagcat cgtgtgtt 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaaacc caaggcaggag 720
cctccatttgc atcagcttcc attctgggtc attatccag taagtgggtc tttgggtctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840

aggaatgaag agacagtggg aactgaaagg ctgtcccta tctacttagg ctctgcgcaa 900
tcctcggct ga 912

<210> 130
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

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cagctttgg tgctcactgg tctttttac ttctgttcag gcatcaccgg aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccgatcta ttggcaaaag gatagtaaaa tgggtctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg ttttgaagg ggcttataaa ctggagcacc tggcttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggagg tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccatttg atcagcttcc attctgggtc attatccag taagtgggc tttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc cgaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtcccta tctacttagg ctctgcgcaa 900
tcctcggct ag 912

<210> 131
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 131
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cagctttgg tgctcactgg tctttttac ttctgttcag gcatcaccgg aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccgatcta ttggcaaaag gatagtaaaa tgggtctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttatt tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg atttgaagg ggcttataaa ctggagcacc tggcttccgt gaggttaatg 420
atcagagctg acttccctgt cccttagcata actgacattt gacatccgc ccctaatgtg 480
aaaaggataa gatgctccgc ctctggagg tttccagagc ctcgcctcgc ctggatggaa 540
gatggagaag aactaaacgc cgtaacacag acggttgacc aggatttggc cacggagctc 600
tacagcgtca gcagtgaact ggatttcaac atgacaagca atcacagctt ctgtgtctt 660
gtcaagttatg gagacttaac agtgcacag accttctact ggcaagaatc caaaccacacc 720
ccttctgcta atcagcacct gacctggacc attattatcc cagtctcagc atttgggatt 780
tctgtgatca ttgcagttat actaacatgc ctgacccgca gaaatgctgc aataacgcaga 840
cagagaaggg agaatgaagg gaaatgcaaa gtgctctcag tctccatagg taccaagctt 900

aagtttaacc gc

912

<210> 132
<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 132
atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcaccccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgcgtgc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacaagg gcacctacac ctgcgtggtt 360
cagaagcctg atttggaaagg ggcttataaa ctggagcacc tggcttcgt gaggtaatg 420
atcagagctg acttccctgt ccctagcata actgacattt gacatccgc ccctaattgtg 480
aaaaggataa gatgctccgc ctctggaggt tttccagagc ctgcctcgc ctggatggaa 540
gatggagaag aactaaacgc cgtcaacacag acgggtgacc aggatttggc cacggagctc 600
tacagcgtca gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttcctt ggagcaaaacc caagcaggag 720
cctccattt atcagcttcc attctgggtc attatccag taagtgggtc tttgggtctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt ggggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 133
<211> 891
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 133
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cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcaccccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgcgtgc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacagt gacacccatc ctgtgtttatt 360
cagaagcctg ttttggaaagg ggcttataaa ctggagcacc tgacttcgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa tttgctcaac ctctggaggt tttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atcacaatgtt cttgtgtctt 660
gtcaagtatg gagacttaac agtgtcacag tccttact gcagaatgc caaaccaccc 720
ccttcgtcta atcagcacct gacctggacc attattatcc cagtctcagc atttgggatt 780
tctgtgtatca ttgcaggatca actaacatgc ctgacccgtca gaaatgtgc aatacgcaga 840
cagagaaggg agaatgaagt ggaaatgcaa agttgtctc agtctccatg a 891

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<210> 134
<211> 909
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 134
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cagctcttgg tgctcaactgg tctttttac ttctgttcag gcatcacccc aaagagtgtg 120
acccaaaagag taaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacaagg gcacccatcac ctgcgtggtt 360
cagaagaatg agaacgggtc tttcagacgg gagcacctga cctccgtgac actgtccatc 420
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aggataagat gctccgcctc tggagggttt ccagagcctc gcctgcgcctg gatggaagat 540
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agcgtcagca gtgaactggg tttcaatgtg acaaataacc acagcatcgt gtgtctcatc 660
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cccatgtatc agcttccatt ctgggtcatt atcccagtaa gtggtgcttt ggtgctact 780
gcggtagttc tctactgcct ggcctgcaga catgttgcga ggtggaaaag aacaagaagg 840
aatgaagaga cagtggaaac taaaaggctg tcccttatct acttaggctc tgcgcaatcc 900
tcgggctag 909

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<210> 135
<211> 891
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 135
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cagctttgg tgctcaactgg tctttttac ttctgttcag gcaccacccc aaagagtgtg 120
acccaaaagag taaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccgatcta ttggcaaaag gatagtaaaa tgggtctggc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcgg tcggacagtg gcacccatcac ctgtgttatt 360
cagaaggctg tttgaaaagg ggcttataaa ctggagcacc tggcttccgt gaggttaatg 420
atcagagctg actccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa ttgtcaac ctctggaggt ttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggattcaac atgacaagca atcacagctt ctgtgtctt 660
gtcaagtatg gagacttaac agtgtcacag accttctact ggcagaatc caaaccaccc 720
ccttctgcta atcagcacct gacctggacc attattatcc cagtcctcagc atttgggatt 780
tctgtgatca ttgcagttat actaacatgc ctgacactgca gaaatgctgc aatacgcaga 840
cagagaaggg agaatgaagt ggaaatgcaa agttgctctc agtctccatg a 891

<210> 136

<211> 912
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 136
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cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
acccaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tgggtgcgtgc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg atttgaagg ggcttataaa ctggagcacc tggcttcgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt ttcccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaata accgcagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atctccctt ggagcaaacc caagcaggag 720
cctccatttgc atcagcttcc attctgggtc attatccag taagtgggtc ttgggtgctc 780
actgcggtag ttctctactg cctggcctgc agacatgttgc gagggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 137
<211> 891
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 137
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cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
acccaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tgggtgcgtgc catcctgcct 240
ggaaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg ttttgaagg ggcttataaa ctggagcacc tgacttcgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttgc gaaatccatc tcctaataatc 480
agaaggctaa ttgctcaac ctctggaggt ttcccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacacaca acagttccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac acgacaagca atcacagctt cttgtgtctt 660
gtcaagtatg gagaactaac agtgtcacag accttctact gcagaataatc caaaccaccc 720
ccttctgcta atcagcacct gacctggacc attattatcc cagtctcagc atttgggatt 780
tctgtatca ttgcaggat actaacatgc ctgacatgc gaaatgtgc aatacgcaga 840
cagagaaggc agaatgaagt gggaaatgc aatgtgtctc aatctccatc a 891

<210> 138
<211> 912
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 138

atgggtcaca caatgaagt gggatcacta ccacccaagc gcccatgcct ctggctct 60
cagctttgg tgctactgg tctttttac ttctgttcag gcataccccc aaagagtgt 120
acccaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccgatcta ttggcaaaag gatagaaaaa tggtgctgc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatccctggc tctgcgcctg tcggacaagg gcacctacac ctgtgttatt 360
cagaagcctg atttggaaagg ggcttataaa ctggagcacc tggctccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaaatc 480
agaaggctaa ttgctcaac ctctggaggt ttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccacacca acagttccc aagatcctgg aactgagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaaaata accacagcat cgtgtgtc 660
atcaaataacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
cctccatttgc atcagcttcc attctgggtc attatcccag taagtgggtc ttgggtgtc 780
actgcggtag ttctctactg cctggcctgc aggcatgtt gtaggtggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaaagg ctgtccctta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 139

<211> 891

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 139

atgggtcaca caatgaagt gggatcacta ccacccaagc gcccatgcct ctggctct 60
cagctttgg tgctactgg tctttttac ttctgttcag gcataccccc aaagagtgt 120
acccaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccgatcta ttggcaaaag gatagaaaaa tggtgctgc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatccctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgttatt 360
cagaagcctg atttggaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaaatc 480
agaaggctaa ttgctcaac ctctggaggt ttccaaggc cccacctcta ctgggtggaa 540
aatggaaaag aattaaatgc taccacacca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atcacagctt cttgtgtc 660
gtcaagtatg gagacttaac agtgcacag accttctact ggcaagaatc caaaccaacc 720
cctctgtcta atcagcacct gacctggacc attattatcc cagtctcagc atttgggatt 780
tctgtgtatca ttgcaggat actaacatgc ctgacactgca gaaatgctgc aatacgcaga 840
cagagaaggg agaatgaagt ggaaatgcaa agtgcgtc agtctccatg a 891

<210> 140

<211> 910

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 140

atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
accaaaagag tgaaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgcgtggtt 360
cagaagaatg agaacgggtc tttcagacgg gagcacctga cctccgtgac actgtccatc 420
agagctgact tccctgtccc tagcataact gacattggac atcccggccc taatgtgaaa 480
aggataagat gctccgcctc tggagggttt ccagagcctc gcctcgctg gatggaagat 540
ggagaagaac taaacgcctg caacacgcac gttgaccagg atttggacac ggagctctac 600
agcgtcagca gtgaactgga tttcaatgtg acaaataacc acagcatcg gtgtctcatc 660
aaatacgggg agctgtcggt gtcacagatc ttcccttggg gcaaaacccaa gcaggaggct 720
cccattgatc agcttccatt ctgggtcatt atcccagtaa gtgggtctt ggtgctact 780
gcggtagttc tctactgcct ggctgcaga catgtgcga gttggaaaag aacaagaagg 840
aatgaagaga cagtggaaac taaaaggctg tcccctatct acttaggctc tgcgcaatcc 900
tcgggctgag 910

<210> 141

<211> 912

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 141

atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ccggctctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcag gcatcaccaccc aaagagtgtg 120
accaaaagag tgaaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaagcctg atttggaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaaatcc 480
agaaggctaa tttgctcaac ctctggaggt tttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaat gtgacaata accacagcat cgtgtgtctc 660
atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagccaaacc caagcaggag 720
cctccatttgc atcagcttcc attctgggtc attatcccag taagtgggc tttgggtctc 780
actgcggtag ttctctactg cctggcctgc agacatgtt gggatggaa aagaacaaga 840
aggaatgaag agacagtggg aactgaaagg ctgtccctta tctacttagg ctctgcgcaa 900
tcctcgggct ga 912

<210> 142

<211> 882

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic nucleotide sequence

<400> 142

atgggtcaca caatgaagt gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctttgg tgctcaactgg tctttttac ttctgtttag gcatcacccc aaagagtgtg 120
accaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaag gatagtaaaa tgggtgtggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtgc gcacccatc ctgtgttatt 360
cagaaggcctg ttttgaagg ggcttataaa ctggagcacc tgacttccgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa ttgcgtcaac ctctggaggt tttccaaaggc cccacccatc ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atttgtgtct tgtcaagtat 660
ggagacttaa cagtgtcaca gacccctac tggcaagaat ccaaaccac cccttctgct 720
aatcagcacc tgacctggac cattattatc ccagtcctg catttggat ttctgtgatc 780
attgcagttt tactaacatg cctgacccctgc agaaatgctg caatacgcag acagagaagg 840
gagaatgaag tggaaatgca aagttgtct cagtcctcat ga 882

<210> 143

<211> 867

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic nucleotide sequence

<400> 143

atgagccaca cacggaggca gggaaacatca ccatccaagt gtccgtaccc caagttcttt 60
cagttttgg tgctggctag tctttctcat ttctgtttag gtgttatcca cgtgactaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtctcaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggggaag aaaatggtgc tgactatgtat gtctggggac 240
atgaatataat ggccccgagta caagaaccgg accatctttg atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gagggcacat acgagtgtgt tgttctggag 360
tataaaaaag atgcttcaa gcgagaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagtat atctgacttt gaaatccac cttctaaatc tagaaggata 480
atttgctcaa cctccggagg tttctgttag cctcacccct cctggctgaa aatggagaa 540
gaattaaatg ccatcaacac aacagcttcc caagatcctg gaactgagct ctataactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcattgtgtct catcaagtat 660
ggacatttaa gagtgaatca gacccctac tggaaatcac ccaagcaaga gcatttccct 720
gataaacctgc tcccatctg gcccattacc ttaatctg taaatggat ttttgtgata 780
tgctgcctga cccactgttt tgcccccaaga tgcagagaga gaaggagggaa tgagagattg 840
agaaggaaaaa gtgcacgcccc tggatgtt 867

<210> 144

<211> 868

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic nucleotide sequence

<400> 144
atgggctaca cacggaggca gggAACATCA ccatccaagt gtccgtaccc caagttcttt 60
cagcttgg tgctggctag tctttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgtga agagctggca 180
caaactccca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
atttgatttc tggctctgac cccatctgac gaggcacaat acgagtgtgt tgttctgaag 360
tataaaaaag acgtttcaa gcgagaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttccta cacctagtat aactgacttt gaaattccac cttctaacaat tagaaggata 480
atttgctcaa cctccggagg tttcctgag cctcacctct tctggctgaa aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aatcgacgtt ttgtgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcag caaatggaaat ttttgtata 780
tgctgcctga cctaccgctt tgcccaaga tgcagagaga gaaggaggaa tgagaggctg 840
agaaggaaa gtgtatgccc tgtatgag 868

<210> 145

<211> 867

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 145

atgggctaca cacggaggca gggAAATATCA ccatccaagt gtccataacctt caagttcttt 60
cagcttgg tgctggctag tctttccac ttctgttcag gtgttatcca cgtgaccaag 120
aaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgtga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
atttgatttc tggctctgac cccatctgac gaggcacaat acgaaatgtgt tgttctgaag 360
tataaaaaag atgtttcaa gcggaaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttccta cacctagtat atctgacttt gaaattccac cttctaacaat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct tctggctgaa aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc gatcgacgtt ttgtgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ctaatctcag taaaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgggagattg 840
agaaggaaa gtgtacgccc tgtatgag 867

<210> 146

<211> 868

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 146

atgagccaca cacagaggca gggAAATATCA ccatccaagt gtccataacctt caatttcttt 60
cagcttgg tgctggctag tctttctcat ttctgttcag gtgttatcca cgtgaccaag 120

gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatatat ggcggagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
attgtgattc tggctctgac cccatctgac gagggcacat acgagtgtgt tgttctggag 360
tataaaaaag acgcttcaa gcgggagcac ctagctgaag tgacgttac agtcaaagct 420
gacttcccta cacctagtt aactgacttt gaaatccac cttctaatacat tagaaggata 480
atttgctcaa cctctggagg tttccagag ccccacctct tctggcttga aaatggagaa 540
gaattaaatg ccatcagcac aacagttcc caagatcctg aaactgagct ctatgctgtc 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaatacaa ccaagcaaga gcatttcct 720
gataacctgc tcccatctg ggcatttacc ttaatcttag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga ggagaaggaa tgagagattg 840
agaaggaaa gtgtacaccc tgatgag 868

<210> 147
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 147
atggccaca cacggaggca gggAACATCA ccatccaagt gtccataacct caagttcttt 60
cagctttgg tgctggctgg tctttctcat ctctgtttag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatatat ggcggagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
attgtgattc tggctctgac cccatctgac gagggcacat acgagtgtgt tgttctggag 360
tataaaaaag acgcttcaa gcgggacac ctagctgaag tgacgttac agtcaaagct 420
gacttcccta cacctagtt atctgacttt gaaatccga cttctaatacat tagaaggata 480
atttgctcaa cctctggagg tttccagag ccccacctct tctggcttga aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacagcc aatcacagtt ttgtgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg ggcatttacc ttaatcttag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga ggaggaggaa tgagagattg 840
agaaggaaa gtgtatgccc tgatgag 867

<210> 148
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 148
atgagccaca tacggaggca gggAAATATCA ccatccaagt gtccataacct caatttcttt 60
cagctttgg tgctggcttg tctttctcat ttctgtttag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatatat ggcggagta caagaaccgg accatcttg atatcaactaa taacctctcc 300

atgtgattc tggctctgcg cccatccgac gagggcacat acgagtgtgt tgttctgaag 360
tataaaaag acgcttcaa gcgggaacac ctggctgaag tgacgttac agtcaaagct 420
gacttcccta cacctagtt atctgacttt gaaattccac cttctaacat tagaaggata 480
attgctcaa cctctggagg tttccagag cctgcctcg cctggatgga agatggagaa 540
gaactaaatg ccatcaacac aacagcttc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggattcaa tatgacaacc aatcgagtt ttgtgtgt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcatttcct 720
gataacctgt tcccatctg gcccattacc ctaatctcg taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtacgccc tgtatga 867

<210> 149
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 149
atgagccaca cacggaggca ggaacatca ccatccaagt gtccgtaccc caagttcttt 60
cagcttgg tgctggctag tctttctcac ttctgtttag gtgttatcca catgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcccaatg tttccgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat gccccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
attggtattc tggctctgctg cccatctgac gagggcacat acgagtgtgt tgttctgaag 360
tataaaaag atgcttcaa gcggaaacac ctggctgaag tgacgttac agtcaaagct 420
gacttcccta cacctagtt atctgacttt gaaattccaa cttctaacat tagaaggata 480
attgctcaa cctctggagg tttccctgag cctcacctt cctggcttga aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaactgagct ctatactgtt 600
agcagcaaac tggattcaa tatgacaacc aaccacagct tcatgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcg taaatggaaat ttttgtata 780
tgctgcctga cccactgttt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtatgccc tgtatag 867

<210> 150
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 150
atgagccaca cacggaggca ggaatataca tcatccaagt gtccataacctt caagttcttt 60
cagcttgg tgctggcttg tctttctcat ttctgtttag gtgttatcca cgtgaccaag 120
aaagtgaaag aagtggcaac actgtcctgt ggtcccaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat gccccgagtg caagaaccgg accatcttg atatcactaa taacctctcc 300
attggtattc tggctctgctg cccatctgac gagggcacat acgagtgtgc tgttctgaag 360
tataaaaag acgcttcaa gcgggaacac ctatgtgaag tgacgttac agtcaaagct 420
gacttcccta cacctagtt atctgacttt gaaattccaa cttctaataat tagaaggata 480

atttgctcaa cctctggagg tttccagag cctcacctct tctggttgga aaatgggaa 540
gaattaaatg ccatcaacac aacagcttcc caagatcctg aaactgagct ctatgtgtt 600
agcagcaaac tggattcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcatttcct 720
gataaacctgc tcccatctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaagagcaa tgagagactg 840
agaaggaaa gtgtacgccc tggatga 867

<210> 151
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 151
atgggctaca cacggaggca gggAACATCA ccatccgagt gtccataacctt caagttcttt 60
cagcttgg tgctggctgg tcttcac ttctgtttag gtgttatcca catgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtctcaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatataat gccccgagta caagaaccgg accatcttgc atatcactaa taacctctcc 300
atttgattc tggctctgctg cccatctgac gaggcacat acgagtgtgt ttttgtataag 360
tatgaaaaaaat atgccttcaa gccccgacac ctggctgaag tggatgttac agtcaaagct 420
gacttcccta caccttagtat atctgacttt gaaattccac cttctaaatc tagaaggata 480
atttgctcaa cctctggagg tttccctgag cctcacctct cttggctgga aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgggt ctataactgtt 600
agcagcaaac tggattcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcatttcct 720
gataaacctgc tcccatctg gcccattacc ctaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaaggagggaa tgagagactg 840
agaaggaaa gtgtacgccc tggatga 867

<210> 152
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 152
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cggtcttgg tgctggcttag tcttcac ttctgtttag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatataat gccccgagta caagaaccgg accatcttgc atatcactaa taacctctcc 300
atttgattc tggctctgctg cccatctgac gaggcacat acgagtgtgt ttttgtataag 360
tatgaaaaaaat acgcttcaa gcgagaacac ctagctgaag tgacgttac agtcaaagct 420
gacttcccta caccttagtat aactgacttt gaaattccac cttctaaatc tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct cttggctgga aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaaactgagct ctataactgtt 600
agcagcaaac tggattcaa tatgacagcc aatcacagtt ttgtgtgtt catcaagtat 660

ggacatcaa gagtgaatca gaccaaacttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatcctg gcccattacc ttaatctcag caaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgccccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtacgccc tgtatga 867

<210> 153
<211> 901
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<220>
<221> modified_base
<222> (893)..(894)
<223> A, T, C, G, other or unknown

<400> 153
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cagctcttgg tgctggctag tctttctcat ttctgtttag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctggggac 240
atgaatatat ggcccgagca caagaaccgg accatcttgc atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggcacat acgagtgtgt tgttctgaag 360
tatgaaaaag acgcttcaa gccccaaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagttt atctgacttt gaaattccac cttctaaat tagaaggata 480
atttgctcaa cctccggagg ttttctgtgg cctcacctt cctggctgaa aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aactgagct ctatactgg 600
agcagcaaaac tggatttcaa tatgacaacc aaccacagct tcatagtgtt catcaagtat 660
ggacatcaa gagtgaatca gaccaaacttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatcctg gcccattacc ctaatctcag caaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgccccaaga tgcagagaga gaaggaggaa tgagaccctg 840
agaaggaaa gtgtacgccc tgtatggggat accaagctt aagttaaacc gcnnatcagc 900
c 901

<210> 154
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 154
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cagctcttgg tgctggctag tctttctcat ttctgtttag gtgttatcca cgtgactaag 120
gaagtggaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctggggac 240
atgaatatat ggcccgagca caagaaccgg accatcttgc atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggcacat acgagtgtgt tgttctgaag 360
tatgaaaaag acgcttcaa gccccaaacac ctggctgaag tgacgttac cgtcaaagct 420
gacttcccta cacctagttt aactgacttt gaaattccac cttctaaat tagaaggata 480

atttgctcaa cctccggagg tttcctgag cctcacctct tctggctgga aaatggagaa 540
gaattaaacg ccatcaacac aacagcttcc caagatcctg aactgagct ctatactgtt 600
agcagcaaac tggattcaa tatgacagcc aatcacagtt ttgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cttactgctt tgcccaaga tgcagagaga ggagaaggaa tgagacactg 840
agaaggaaa gtgtaccccc tttatga 867

<210> 155
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 155
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cagcttgg tgcttagctag tctttctcac ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac gctgtcctgt ggtcacaatg ttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggcacat acgggtgtgt tggctggag 360
tatgaaaaaaag acgcttcaa gcgagaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagtt aactgacctt gaaattccac ttcttaacat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct tctgggttggaaatgggaa 540
gaattaaatg ccatcaacac aacagcttcc caagatcctg aactgagct ctatgtgtt 600
agcagcaaac tggattcaa tatgacaacc aaccacagct tcatgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcatttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcag caaatggaaat ttttgtata 780
tgctgcctga cttactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtacaccc tttatga 867

<210> 156
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 156
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cagcttgg tgctggcttg tctttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aggtggcaac gctgtcctgt ggtcacaatg ttctgttga agagctggca 180
caaactcgca tctactggca aaaggataag aaaatggtc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggcacat acgagtgtgt tggctgaag 360
tatgaaaaaaag atgcttcaa gcaggaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagtt atctgactt gaaattccac ttcttaacat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcgccctg cctggatggaaatgggaa 540
gaactaaatg ccatcagcac aacagttcc caagatcctg gaaactgagct ctgtactgtt 600
agcagcaaac tggattcaa tatgacaacc aaccacagct tcatgtgtt catcaggtat 660

ggacatttaa gagtgaatca gaccaaactac tggaaatacac ccaagcaaga gcatttcct 720
gataaacctgc tcccatcctg gcccattacc ttaatctcag taaaggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga ggcagagaga gaaagagcaa tggagactg 840
agaagggaaa gtgtacaccc tgtatga 867

<210> 157
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<220>
<221> modified_base
<222> (599)
<223> A, T, C, G, other or unknown

<400> 157
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cagctttgg tgctggctgg tctttctcac ttctgttcag gtgttatcca cgtgactaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatataat gccccgagta caagaaccgg accatcttgc atatcactaa taacctctcc 300
atttgtgattc tggctctgctg cccatctgac gagggcacat acgagtgtgt tgttctgaag 360
tataaaaaaag atgcttcaa gccccaaac cttggctgaag tgatgttata cgtcaaagct 420
gacttcccta cacctagttat atctgacttt gaaatccac cttctaaacat tagaaggata 480
atttgtctcaa cctctggagg tttcctgag ctcacactt cttggctgaa aatggagaa 540
gaattaaatg ccatcagcac aacagttcc caagatcctg aaactgagct ctatgtgtct 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcatgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccaaactac tggaaatacac ccaagcaaga gcatttcct 720
gataaacctgc tcccatcctg gcccattacc ctaatctcg taaatggaaat ttttgtata 780
tgctgcccga cctactgctt tgcccaagg tgcagagaga gaaggaggaa tgagagattg 840
agaagggaaa gtgtatgccc tgtatga 867

<210> 158
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 158
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cagctttgg tgctggctgg tctttctcat ttctgttcag gtgttatcta cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtc tgattatgtat gtctgggac 240
atgaatataat gccccgagta caagaaccgg accatcttgc atatcactaa taacctctcc 300
atttgtgattc tggctctgctg cccatctgac gagggcacat aggagtgtgt tgttctgaag 360
tataaaaaaag atgcttcaa gccccaaac cttggctgaag tgacgttata cgtcaaagct 420
gacttcccta cacctagttat atctgacttt gaaatccac cttctaaacat tagaaggata 480
atttgtctcaa cctctggagg tttcctgag ctcacactt cttggctgaa aatggagaa 540

gaattaaatg ccatcaacac aacagttcc caagatcctg gaaactgagct ctatactgtt 600
agcagcaaac tggattcaa tatgacaacc aaccacagct tcatacgatc catcaagtat 660
ggacattaa gagtgaatca gacccatcacc tggaaatacac ccaagcaaga gcatccct 720
gataaacctgc tcccatcctg gcccattacc ttaatcttag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtatgccc tggatga 867

<210> 159
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 159
atggccaca cacggaggca gggAACATCA ccatccaAGT gtccatacct caagttcttt 60
cagctctgg tgctggctgg tcttcac ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat gccccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggccacat acgggtgtgt tgttctggag 360
tatgaaaaaaag acgcttcaa gccccgacac ctggctgaag tgatgttata cgtcaaagct 420
gacttcccta cacctagttt atctgacttt gaaattccac cttctaaacat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct cctggctgga aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctatgtt 600
agcagcaaac tggattcaa tatgacaacc aaccacagct tcatacgatc catcaagtat 660
ggacattaa gaggaaatca gacccatcacc tggaaatacac ccaagcaaga gcatccct 720
gataaacctgc tcccatcctg gcccattacc ctaatcttag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtacgccc tggatga 867

<210> 160
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 160
atggctaca cacggaggca gggAACATCA ccatccaAGT gtccatacct caatttcttt 60
cagctctgg tgctggcttag tcttcac ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat gccccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
gttgtgattc tggctctgctg cccatctgac gaggccacat acgggtgtgt tgttctgaag 360
tatgaaaaaaag acgcttcaa gccccgacac ctggctgaag tgacgttata cgtcaaagct 420
gacttcccta cacctagttt aactgacttt gaaattccac cttctaaacat tagaaggata 480
atttgctcaa cctctggagg tttccctgag cctcacctct cctggctgga aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaaactgagct ctatactgtt 600
agcagcaaac tggattcaa tatgacaacc aatcgatgtt ttgtgtgtcatcaagtat 660
ggacattaa gaggaaatca gacccatcacc tggaaatacac ccaagcaaga gcatccct 720

gataacctgc tcccattctg gcccattacc ctaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaagagcaa tgagagactg 840
agaaggaaa gtgtacgccc tgtatga 867

<210> 161
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 161
atgggctaca cacggaggca gggatatca ccatccaagt gtccataacct caagttcttt 60
cagctctgg tgctggctgg tctttctcac ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat gggccggatca caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tggctctgac cccatctgac gaggccacat acgagtgtgt tggttctgaag 360
tataaaaaaat atgcttcaa gccccggacac ctggctgaag tgatgttata cgtcaaagct 420
gacttcccta caccttagtat aactgacttt gaaatccac cttctaaatcat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcgccctcg cctggatgga agatggagaa 540
gaattaaatg ccatcaacac aacagtttcc caagatcctg gaactgagct ctatgctgtt 600
agcagcaaac tggattttaa tatgacaacc aaccacagct tcatagtgtt catcaagtat 660
ggacatttaa gagtgaatca gacccctcaac tggatatacc ccaagcaaga gcattttccct 720
gataacctgc tcccattctg gcccattacc ttaatctcag taaatggaaat ttctgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaaggagaa tgagagattg 840
agaaggaaa gtgtacgccc tgtatga 867

<210> 162
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 162
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cagctctgg tgctggctgg tctttctcac ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat gggccggatca caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tggctctgac cccatctgac gaggccacat acgagtgtgt tggttctggag 360
tataaaaaaat atgcttcaa gccccggacac ctggctgaag tgatgttata cgtcaaagct 420
gacttcccta caccttagtat aactgacttt gaaatccaa cttctaaatcat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcgccctcg cctggatgga agatggagaa 540
gaactaaatg ccatcagcac aacagtttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaact aaccacagct tcatagtgtt catcaagtat 660
ggacatttaa gagtgaatca gacccctcaac tggatatacc ccaagcaaga gcattttccct 720
gataacctgc tcccattctg gcccattacc ctaatctcag taaatggaaat ttctgtata 780
tgctgcctga cccactgttt tgcccaaga tgcagagaga gaaaggagaa tgagagattg 840
agaaggaaa gtgtacgccc tgtatga 867

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<210> 163
<211> 867
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 163
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cagctcttgg tgctggctgg tctttctcac ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtctcaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgat gtctggggac 240
atgaatatat gccccgagta caagaaccgg accatctttg atatcactaa taacctctcc 300
attgtgattc tggctctgcg cccatctgac gagggcacat acgagtgtgt tggctctgaag 360
tatgaaaaag acgctttcaa gcgggaaacac ctggctgaag tgatgttata cgtcaaagct 420
gacttccta cacctagtat aactgacttt gaaattccac cttctaacat tagaaggata 480
atttgctcaa cctctggagg ttttccttag cctcacctct cctggctgga aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcattgtgtct catcaagat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg ggcattacc ttaatcttag caaatggaaat tttgtgata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaagagcaa tgagagactg 840
agaaggaaaa gtgtatgccc tggatgta 867

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<210> 164
<211> 867
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 164
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cagctcttgg tgctggcttg tctttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgatga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgat gtctggggac 240
atgaatatat gccccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
attgtgattc tgctctgcg cccatctgac gagggcacat acgagtgtgt tggctgaag 360
tatgaaaaag atgctttcaa gcgagaacac ctggctgaag tgacgttatac agtcaaagct 420
gacttccta cacctagtat atctgacttt gaaattccac cttctaacat tagaaggata 480
atttgctcaa cctctggagg ttttcctgag cctcacctct cctggctgga aaatggggaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcattgtgtct catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctta ggccattacc ttaatctcag caaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgccccgaga tgcagagaga gaaggaggaa tgagagattg 840
aqaaggqaaa gtatacaccc tqtatga 867

<210> 165

<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 165
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cagctttgg tgctggctgg tctttctcat ctctgttcag gtgttatcca cgtgactaag 120
gaagtggaaag aagtggcaac gctggcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatatac ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
atttgatttc tggctctgac cccatctgac gagggcacat acgagtgtgt tggtctgaag 360
tataaaaaaag atgcttcaa gccccaaac cttggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagtat aactgacttt gaaattccac cttctaaacat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct tctggcttga aaatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatctg gaaactgagct ctatgtgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacaact tcatgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaaa gtgtacgccc tgtatga 867

<210> 166
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 166
atgggccaca cacggaggca gggatatac ccatccaagt gtccataacct caagttcttt 60
cagctttgg tgctggctgg tctttctcat ctctgttcag gtgttatcca catgactaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatatac ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
atttgatttc tggctctgac cccatctgac gagggcacat acgagtgtgt tgctctgaag 360
tataaaaaaag atgcttcaa gccccaaac cttggctgaag tgacgttac agtcaaagct 420
gacttcccta cacctagtat atctgacttt gaaattccac cttctaaacat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcgccctg cctggatgaa agatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatctg aactgagct ctataactgtt 600
agcagcaaac tggatttcaa tatgacagcc aaccacagct tcatgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacac ccaagcaaga gcattttcct 720
gataacctgc tcccatctg gcccattacc ttaatctcag taaatggaaat ttttgtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaaa gtgtatgccc tgtatga 867

<210> 167
<211> 867
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 167

atggccaca cacggaggca gggatatca ccatacaatgt gtccataacct caagttcttt 60
cagctttgg ggctggcttg tctttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
attgtgattc tggctctgctg cctatctgac gaggcacat acgagtgtgt tgttctgaag 360
tatgaaaagg acgcttcaa gccccaaacac ctggctgaag tgacgttacat agtcaaagct 420
gacttcccta cacctagttt atctgacttt gaaatccaa cttctaataat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct tctggctgga aaatgggaa 540
gaattaaatg ccatcaacac aacagcttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aatcgacgtt ttgtgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggataacac ccaagcaaga gcattttcct 720
gataacctac tcccatctg gggcattacc ttaatcttag taaatggaaat tttcggtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtacgccc tttatga 867

<210> 168

<211> 867

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide séquence

<400> 168

atgagccaca cacggaggca gggatatca ccatacaatgt gtccataacct caagttcttt 60
cagctttgg tgctggcttg tctttctcat ttctgttcag gtgttatcca cgtgaccaag 120
gaagtggaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctgggac 240
atgaatataat ggcccgagta caagaaccgg accatcttg atatcaactaa taacctctcc 300
attgtgattc tggctctgctg cccatctgac gaggcacat acgagtgtgt tgttctgaag 360
tatgaaaagg atgcttcaa gccccaaacac ctggctgaag tgatgttacat cgtcaaagct 420
gacttcccta cacctagttt atctgacttt gaaatccaa cttctaataat tagaaggata 480
atttgctcaa cctctggagg tttcctgag cctcacctct tctggctgga aaatggagaa 540
gaattaaatg ccatcaacac aacagcttcc caagatcctg aaactgagct ctatactgtt 600
agcagcaaac tggatttcaa tatgacaacc aatcgacgtt ttgtgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggataacac ccaagcaaga gcattttcct 720
aataacctac tcccatctg gggcattacc ttaatcttag taaatggaaat tttcggtata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga ggagaaggaa tgagacactg 840
agaaggaaa gtgtacaccc tttatga 867

<210> 169

<211> 867

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

nucleotide sequence

<400> 169

atggccaca cacggaggca gggAACATCA ccatccaAGT gtccatacct caagttcttt 60
cagCTCTGG tgctggctgg tctttctcac ttctgttcAG gtgttatcca cgtgaccaAG 120
gaagtGAAAG aagtggcaac gctgtcctgt ggtcacaatg tttctgttGA agagctggca 180
caaactcgca tctactggca aaaggagaAG aaaatggtgc tgactatgat gtctgggac 240
atgaatataAT ggcccAGAGCA caagaACCGG accatTTG atatcaCTAA taacCTCTCC 300
atttgatttc tggctctgCG cccatctgac gaggGCACAT acgAGTGTGT tgTTCTGAAG 360
tatGAAAAG acgCTTCAA gCGGGAAACAC ctggctGAAG tgacGTTATC agtcaaAGCT 420
gacttCCCTA cacCTAGTAT aactgactt gaaatCCAA cttCTAATAT tagaaggata 480
atttgctcaa CCTCTGGAGG tttccAGAG cctcacCTCT cctggctGGA aaatggagaa 540
gaattAAATG ccatcaACAC aacAGTTCC caagatCCTG gaactgAGCT ctataCTGTT 600
agcagcaaAC tggatttCAA tatgacaACC aatcGAGTT ttgtgtGTCT catcaAGTAT 660
ggacatttaA gagtGAATCA gacCTTCAAC tggAAataCAC ccaAGCAAGA gcatttCCT 720
gataacCTGC tcccatCCTG gGCCATTACt ttaatCTCAG taaatGGAAT ttttGtGATA 780
tgctgcctGA CCTACTGCTT tgccccAAGA tgcaGGAGA gaaggaggAA tgagAGATTG 840
agaaggAAA gtgtacGCCc tGtATGA 867

<210> 170

<211> 867

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 170

atgagccaca cacggaggca gggAAATATCA ccatccaAGT gtccatacct caagttcttt 60
cagCTCTGG tgctggctAG tctttctcac ttctgttcAG gtgttatcca cgtgaccaAG 120
gaagtGAAAG aagtggcaac gctgtcctgt ggtcacaatg tttctgttGA agagctggca 180
caaactcgca tctactggca aaaggagaAG aaaatggtgc tgactatgat gcctgggac 240
atgaatataAT ggcccAGAGCA caagaACCGG accatTTG atatcaCTAA taacCTCTCC 300
atttgatttc tggctctgCG cccatctgac gaggGCACAT acgAGTGTGT tgTTCTGAGG 360
tatGAAAAG atgCTTCAA gCGGGAAACAC ctggctGAAG tgacGTTATC agtcaaAGCT 420
gacttCCCTA cacCTAGTAT atctgactt gaaatCCAA cttCTAATAT tagaaggata 480
atttgctcaa CCTCCGGAGG tttcCTGAG cctcacCTCT cctggctGGA aaatggggaa 540
gaattAAATG ccatcaACAC aacAGCTTCC caagatCCTG aaactgAGCT ctataCTGTT 600
agcagcaaAC tggatttCAA tatgacaACC aatcGAGTT ttgtgtGTCT catcaAGTAT 660
ggacatttaA gagtGAATCA gacCTTCAAC tggAAataCAC ccaAGCAAGA gcatttCCT 720
gataacCTGC tcccatCCTG gGCCATTACt ttaatCTCAG caaatGGAAT ttttGtGATA 780
tgctgcctGA CCCACTGCTT CGCCCCAAGA tgcaGGAGA gaaagAGCAA tgagAGACTG 840
agaaggAAA gtgtacGCCc tGtATAG 867

<210> 171

<211> 867

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 171

atgagccaca cacggaggca gggaaatata ccatccaagt gtccgtaccc caagttcttt 60
cagctttgg tgctggctgg tctttctcat ttctgttcag gtgttatcca cgtgactaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tccactggca aaaggagaag aaaatggtgc tgactatgtat gtctggggc 240
atgaatata gccccgagta caagaaccgg accatcttgc atatcactaa taacctctcc 300
atttgattc tggctctgcg cccatctgac gaggcacat acgagtgtgt tgttctgaag 360
tatgaaaaag acgcttcaa gccccgacac ctagctgaag tgacgttac agtcaaagct 420
gacttcccta cacctagttt atctgacttt gaaattccaa cttctataat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct cctggctgga aatggagaa 540
gaattaaatg ccatcagcac aacagttcc caagatcctg gaactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aatcgacgtt ttgtgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggatacaca ccaagcaaga gcatttccct 720
gataacctgc tcccatctgc ggcattacc ctaatctcag taaatggat ttttgtgata 780
tgctgcctga cctactgctt tgcccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaaa gtgtacgccc tgtatag 867

<210> 172
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 172
atgggctaca cacggaggca gggaaacatca ccatccaagt gtccataccca caagttcttt 60
cagctttgg tgctggcttg tctttctcat ttctgttcag gtgttatcca cgtgactaag 120
gaagtgaaag aagtggcaac actgtcctgt ggtcacaatg tttctgttga agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctggggac 240
atgaatata gccccgagta caagaaccgg accatcttgc atatcactaa taacctctcc 300
atttgattc tggctctgcg cccatctgac gaggcacat acgagtgtgt tgttctggag 360
tatgaaaaag acgcttcaa gccccgacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagttt atctgacttt gaaattccac cttctaaat tagaaggata 480
atttgctcaa cctctggagg tttccctgag cctcacctct cctggctgga aatggagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg gaactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcattgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccccaac tggatacaca ccaagcaaga gcatttccct 720
gataacctgc tcccatctgc ggcattacc ctaatctcag taaatggat ttttgtgata 780
tgctgcctgg cctactgctt tgcccaaga tgcagagggaa gaaggaggaa tgagagattg 840
agaaggaaaa gtgtacgccc tgtatga 867

<210> 173
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 173
atgggccaca cacggaggca gggaaacatca ccatccaagt gtccgtaccc caatttcttt 60
cagctttgg tgctggcttg tctttctcac ttctgttcag gtgttatcca cgtgactaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttga agagctggca 180

caaactcgca tctactggca aaaggagaag aaaatggtc tgactatgtat gtctgggac 240
atgaatatat ggcccgagta caagaaccgg accatcttg atatcactaa taacctctcc 300
atgtgattc tggctctgcg cccatctgac gaggccat acgagtgtgt tggcttgcg 360
tatgaaaaag atgcttcaa gcgagaacac ctggctgaag tgatgttac cgtcaaagct 420
gacttcccta cacctagtt atctgactt gaaattccac cttctaacat tagaaggata 480
atttgctcaa cccctggagg tttccagag cctcgccctcg cctggatgga agatgggaa 540
gaactaaatg ccatcagcac aacagttcc caagatcctg gaactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcattgtgtt catcaagtat 660
ggacatttaa gagtgaatca gaccttcaac tggaaatacaa ccaagcaaga gcatttcct 720
gataacctgc tcccattctg ggcatttacc ctaatctcag taaagggaaat ttttgtata 780
tgctgcctga cctactgcctt tgcccaaga tggagagaga gaaagagcaa tgagagactg 840
agaaggaaa gtgtacgccc tgtatag 867

<210> 174
<211> 303
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (75)
<223> Variable amino acid

<400> 174
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Arg Lys Asp Ser Lys Met Xaa Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Leu Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile

145	150	155	160
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu			
165	170	175	
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val			
180	185	190	
Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp			
195	200	205	
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly			
210	215	220	
Glu Leu Leu Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu			
225	230	235	240
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly			
245	250	255	
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His			
260	265	270	
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr			
275	280	285	
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly			
290	295	300	

<210> 175
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 175
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Cys Pro Cys
 1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110
 Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125
 Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140
 Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160
 Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175
 Tyr Trp Leu Glu Asn Gly Glu Leu Asn Ala Thr Asn Thr Thr Leu
 180 185 190
 Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205
 Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220
 Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240
 Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255
 Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270
 Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285
 Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 176
 <211> 310
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (310)
 <223> Variable amino acid

<400> 176
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys

1	5	10	15
Leu Trp Leu Ser Gln Leu Leu Val	Leu Thr Gly Leu Phe Tyr Phe Cys		
20	25	30	
Ser Gly Ile Thr Pro Lys Ser Val	Thr Lys Arg Val Lys Glu Thr Val		
35	40	45	
Met Leu Ser Cys Asp Tyr Asn Thr	Ser Thr Glu Lys Leu Thr Ser Leu		
50	55	60	
Arg Ile Tyr Trp Gln Lys Asp Ser	Lys Met Val Leu Ala Ile Leu Pro		
65	70	75	80
Gly Lys Val Gln Val Trp Pro Glu	Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90	95	
Met Asn Asp Asn Pro Arg Ile Val	Ile Leu Ala Leu Arg Leu Ser Asp		
100	105	110	
Ser Gly Thr Tyr Thr Cys Val Ile	Gln Lys Pro Val Leu Lys Gly Ala		
115	120	125	
Tyr Lys Leu Glu His Leu Thr Ser	Val Arg Leu Met Ile Arg Ala Asp		
130	135	140	
Phe Pro Val Pro Thr Ile Asn Asp	Leu Gly Asn Pro Ser Pro Asn Ile		
145	150	155	160
Arg Arg Leu Ile Cys Ser Thr Ser	Gly Gly Phe Pro Arg Pro His Leu		
165	170	175	
Tyr Trp Leu Glu Asn Gly Glu	Leu Asn Ala Thr Asn Thr Thr Val		
180	185	190	
Ser Gln Asp Pro Glu Thr Lys	Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200	205	
Phe Asn Val Thr Asn Asn His	Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220	
Glu Leu Ser Val Ser Gln Ile	Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235	240
Pro Pro Ile Asp Gln Leu Pro	Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255	
Ala Leu Val Leu Thr Ala Val Val	Leu Tyr Cys Pro Ala Cys Arg His		
260	265	270	
Val Ala Arg Trp Lys Arg Thr	Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285	
Glu Arg Leu Ser Pro Ile Tyr	Leu Gly Ser Ala Gln Ser Arg Ala Glu		
290	295	300	
Val Pro Ser Leu Ser Xaa			

305

310

<210> 177

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 177

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Leu Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 178

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 178

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Pro Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
 180 185 190
 Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205
 Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220
 Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240
 Pro Pro Ile Asp Gln Leu Pro Phe Arg Val Ile Ile Pro Val Ser Gly
 245 250 255
 Ala Leu Val Leu Thr Ala Ile Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270
 Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285
 Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 179

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 179

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala

115	120	125
Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp		
130	135	140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile		
145	150	155
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu		
165	170	175
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val		
180	185	190
Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300

<210> 180

<211> 302

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 180

Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
1				5				10				15			

Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Leu	Thr	Gly	Leu	Phe	Tyr	Phe	Cys
					20			25				30			

Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val
						35		40			45				

Met	Pro	Ser	Cys	Asp	Tyr	Ser	Thr	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu
						50		55		60					

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80
 Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95
 Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110
 Ser Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
 115 120 125
 Arg Arg Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe
 130 135 140
 Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys
 145 150 155 160
 Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala
 165 170 175
 Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val Asp
 180 185 190
 Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp Phe
 195 200 205
 Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu
 210 215 220
 Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro
 225 230 235 240
 Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala
 245 250 255
 Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val
 260 265 270
 Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu
 275 280 285
 Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 181
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 181

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

Lys Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
 180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 182
<211> 296
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 182
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45
Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125
Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
180 185 190
Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205
Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
210 215 220
Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
225 230 235 240
Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser

245

250

255

Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
260 265 270

Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu
275 280 285

Met Gln Ser Cys Ser Gln Ser Pro
290 295

<210> 183

<211> 296

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 183

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
180 185 190

Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
210 215 220

Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
225 230 235 240

Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Pro Val Ser
245 250 255

Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
260 265 270

Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Lys
275 280 285

Met Gln Ser Cys Ser Gln Ser Pro
290 295

<210> 184

<211> 275

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 184

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Lys Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val
145 150 155 160

Lys Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu
165 170 175

Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
180 185 190

Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
195 200 205

Phe Asn Ala Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Val Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg
275

<210> 185
<211> 303
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 185
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp

85

90

95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

Tyr Trp Leu Glu Asn Gly Glu Leu Asn Ala Thr Asn Thr Thr Leu
 180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 186

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 186

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15

Leu Trp Pro Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45
 Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60
 Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80
 Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95
 Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110
 Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125
 Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140
 Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160
 Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175
 Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
 180 185 190
 Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205
 Phe Asn Val Thr Asn Asn His Ser Ile Ala Cys Leu Ile Lys Tyr Gly
 210 215 220
 Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240
 Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255
 Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270
 Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285
 Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 187
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 187

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Gly Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 188

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 188

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val
145 150 155 160

Lys Arg Ile Arg Cys Ser Ala Ser Gly Asp Phe Pro Glu Pro Arg Leu
165 170 175

Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
180 185 190

Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly

210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
240		
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
255		
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
270		
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
285		
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300
300		

<210> 189

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 189

Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
1				5					10				15		

Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Leu	Thr	Gly	Leu	Phe	Tyr	Phe	Cys
							20	25					30		

Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val
							35	40					45		

Met	Leu	Ser	Cys	Asp	Tyr	Asn	Thr	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu
							50	55					60		

Arg	Ile	Tyr	Trp	Gln	Lys	Asp	Ser	Lys	Met	Val	Leu	Ala	Ile	Leu	Pro
									65	70			75	80	

Gly	Lys	Val	Gln	Val	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Thr	Asp
							85	90					95		

Met	Asn	Asp	Asn	Pro	Arg	Ile	Val	Ile	Leu	Ala	Leu	Arg	Leu	Ser	Asp
							100	105					110		

Ser	Gly	Thr	Tyr	Thr	Cys	Val	Ile	Gln	Lys	Pro	Val	Leu	Lys	Gly	Ala
							115	120					125		

Tyr	Lys	Leu	Glu	His	Leu	Ala	Ser	Val	Arg	Leu	Met	Ile	Arg	Ala	Asp
								130	135			140			

Phe	Pro	Val	Pro	Thr	Ile	Asn	Asp	Leu	Gly	Asn	Pro	Ser	Pro	Asn	Ile
								145	150			155		160	

Arg	Arg	Leu	Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Arg	Pro	His	Leu		
														165	170	175	
Tyr	Trp	Leu	Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Thr	Asn	Thr	Thr	Val		
														180	185	190	
Ser	Gln	Asp	Pro	Gly	Thr	Glu	Leu	Tyr	Met	Ile	Ser	Ser	Glu	Leu	Gly		
														195	200	205	
Phe	Asn	Val	Thr	Asn	Asn	His	Ser	Ile	Val	Cys	Leu	Ile	Lys	Tyr	Gly		
														210	215	220	
Glu	Leu	Ser	Val	Ser	Gln	Ile	Phe	Pro	Trp	Ser	Lys	Pro	Lys	Gln	Glu		
														225	230	235	240
Pro	Pro	Ile	Asp	Gln	Leu	Pro	Phe	Trp	Val	Ile	Ile	Pro	Val	Ser	Gly		
														245	250	255	
Ala	Leu	Val	Leu	Thr	Ala	Val	Val	Leu	Tyr	Cys	Leu	Ala	Cys	Arg	His		
														260	265	270	
Val	Ala	Arg	Trp	Lys	Arg	Thr	Arg	Arg	Asn	Glu	Glu	Thr	Val	Gly	Thr		
														275	280	285	
Glu	Arg	Leu	Ser	Pro	Ile	Tyr	Leu	Gly	Ser	Ala	Gln	Ser	Ser	Gly			
														290	295	300	

<210> 190

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (276)

<223> Variable amino acid

<400> 190

Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
1				5					10				15		

Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Leu	Thr	Gly	Leu	Phe	Tyr	Phe	Cys
20								25					30		

Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val
35							40					45			

Met	Leu	Ser	Cys	Asp	Tyr	Ser	Thr	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu
50							55					60			

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro

65	70	75	80
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp			
85	90		95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp			
100	105		110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala			
115	120		125
Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp			
130	135		140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile			
145	150	155	160
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu			
165	170		175
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val			
180	185		190
Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp			
195	200	205	
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly			
210	215	220	
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu			
225	230	235	240
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly			
245	250		255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His			
260	265		270
Val Ala Arg Xaa Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr			
275	280		285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly			
290	295	300	
<210> 191			
<211> 293			
<212> PRT			
<213> Artificial Sequence			
<220>			
<223> Description of Artificial Sequence: Synthetic peptide			
<400> 191			
Met Gly His Thr Leu Arg Pro Gly Thr Pro Leu Pro Arg Cys Leu His			
1	5	10	15

Leu Lys Leu Cys Leu Leu Leu Ala Leu Ala Gly Leu His Phe Ser Ser
 20 25 30

Gly Ile Ser Gln Val Thr Lys Ser Val Lys Glu Met Ala Ala Leu Ser
 35 40 45

Cys Asp Tyr Asn Ile Ser Ile Asp Glu Leu Ala Arg Met Arg Ile Tyr
 50 55 60

Trp Gln Lys Asp Gln Gln Met Val Leu Ser Ile Ile Ser Gly Gln Val
 65 70 75 80

Glu Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp Met Asn Asp
 85 90 95

Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp Ser Gly Thr
 100 105 110

Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala Tyr Lys Pro
 115 120 125

Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp Phe Pro Val
 130 135 140

Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile Arg Arg Leu
 145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu Tyr Trp Leu
 165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu Ser Gln Asp
 180 185 190

Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe Asn Met
 195 200 205

Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly Asp Leu Thr
 210 215 220

Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr Pro Ser Ala
 225 230 235 240

Asn Gln His Leu Thr Trp Thr Ile Ile Pro Val Ser Ala Phe Gly
 245 250 255

Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr Cys Arg Asn
 260 265 270

Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu Met Gln Ser
 275 280 285

Cys Ser Gln Ser Pro
 290

<211> 301
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 192
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45
Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95
Met Asn Asp Asn Pro Arg Ile Val Ile Gln Ala Leu Arg Leu Ser Asp
100 105 110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125
Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140
Phe Pro Val Pro Thr Asp Leu Gly Asn Pro Ser Pro Asn Ile Arg Arg
145 150 155 160
Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu Tyr Trp
165 170 175
Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val Ser Gln
180 185 190
Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe Asn
195 200 205
Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu Leu
210 215 220
Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro Pro
225 230 235 240
Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala Leu
245 250 255

Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val Ala
260 265 270

Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu Arg
275 280 285

Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 193

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 193

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
180 185 190

Ser Gln Asp Pro Glu Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp

195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	240
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300

<210> 194
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 194															
Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
1				5				10				15			
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys															
				20				25				30			
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val															
				35				40				45			
Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu															
				50				55				60			
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro															
				65				70				75			80
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp															
				85				90				95			

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp															
		100	105		110										
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala															
				115				120				125			
Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp															
				130				135				140			

Phe	Pro	Val	Pro	Thr	Ile	Asn	Asp	Leu	Gly	Asn	Pro	Ser	Pro	Asn	Ile
145															160
Arg	Arg	Leu	Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Arg	Pro	His	Leu
															175
Tyr	Trp	Leu	Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Thr	Asn	Thr	Thr	Val
															190
Ser	Gln	Asp	Pro	Gly	Thr	Glu	Leu	Tyr	Met	Ile	Ser	Ser	Glu	Leu	Asp
															205
Phe	Asn	Val	Thr	Asn	Asn	His	Ser	Ile	Val	Cys	Leu	Ile	Lys	Tyr	Gly
															220
Glu	Leu	Ser	Val	Ser	Gln	Ile	Phe	Pro	Trp	Ser	Lys	Pro	Lys	Gln	Glu
															240
Pro	Pro	Ile	Asp	Gln	Leu	Pro	Phe	Trp	Val	Ile	Ile	Pro	Val	Ser	Gly
															255
Ala	Leu	Val	Leu	Thr	Ala	Val	Val	Leu	Tyr	Cys	Leu	Ala	Cys	Arg	His
															270
Val	Ala	Arg	Trp	Lys	Arg	Thr	Arg	Arg	Asn	Glu	Glu	Thr	Val	Gly	Thr
															285
Glu	Arg	Leu	Ser	Pro	Ile	Tyr	Leu	Gly	Ser	Ala	Gln	Ser	Ser	Gly	
															300

<210> 195

<211> 302

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 195

Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
1				5					10						15

Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Leu	Thr	Gly	Leu	Phe	Tyr	Phe	Cys
															30
20									25						

Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val
															45
35								40							

Met	Leu	Ser	Cys	Asp	Tyr	Asn	Thr	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu
															50
50								55				60			

Arg	Ile	Tyr	Trp	Gln	Lys	Asp	Ser	Lys	Met	Val	Leu	Ala	Ile	Leu	Pro
															65
65								70			75				80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

 Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

 Ser Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
 115 120 125

 Arg Arg Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe
 130 135 140

 Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys
 145 150 155 160

 Arg Ile Arg Cys Ser Ala Ser Gly Asp Phe Pro Glu Pro Arg Leu Ala
 165 170 175

 Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val Asp
 180 185 190

 Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp Phe
 195 200 205

 Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu
 210 215 220

 Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro
 225 230 235 240

 Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Leu Val Ser Gly Ala
 245 250 255

 Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val
 260 265 270

 Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu
 275 280 285

 Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 196
 <211> 300
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 196
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15

 Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys

20	25	30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val		
35	40	45
Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu		
50	55	60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro		
65	70	75
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90	95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp		
100	105	110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala		
115	120	125
Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp		
130	135	140
Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val		
145	150	155
160		
Lys Arg Ile Arg Cys Ser Ala Ser Gly Asp Phe Pro Glu Pro Arg Leu		
165	170	175
Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val		
180	185	190
Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp Phe Asn Val		
195	200	205
Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu Leu Ser		
210	215	220
Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro Pro Ile		
225	230	235
240		
Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala Leu Val		
245	250	255
Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val Ala Arg		
260	265	270
Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu Arg Leu		
275	280	285
Ser Pro Ile Tyr Leu Gly Ser Ala Gln Pro Ser Gly		
290	295	300

<210> 197
 <211> 303
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 197

Met Gly His Thr Met Glu Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
180 185 190

Ser Gln Asp Pro Glu Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 198
<211> 303
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 198
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro Arg Leu
165 170 175

Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
180 185 190

Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 199

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 199

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile

145	150	155	160
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu			
165	170	175	
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu			
180	185	190	
Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp			
195	200	205	
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly			
210	215	220	
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu			
225	230	235	240
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly			
245	250	255	
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His			
260	265	270	
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr			
275	280	285	
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly			
290	295	300	
<210> 200			
<211> 303			
<212> PRT			
<213> Artificial Sequence			
<220>			
<223> Description of Artificial Sequence: Synthetic peptide			
<400> 200			
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys			
1	5	10	15
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys			
20	25	30	
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val			
35	40	45	
Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu			
50	55	60	
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro			
65	70	75	80
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp			
85	90	95	

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110
 Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
 115 120 125
 Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140
 Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val
 145 150 155 160
 Lys Arg Ile Arg Cys Ser Ala Ser Gly Asp Phe Pro Glu Pro Arg Leu
 165 170 175
 Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
 180 185 190
 Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
 195 200 205
 Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220
 Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240
 Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255
 Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270
 Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285
 Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 201
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 201
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15
 Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

 Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

 Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80

 Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

 Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

 Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
 115 120 125

 Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

 Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val
 145 150 155 160

 Lys Arg Ile Arg Cys Ser Ala Ser Gly Asp Phe Pro Glu Pro Arg Leu
 165 170 175

 Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
 180 185 190

 Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
 195 200 205

 Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220

 Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240

 Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255

 Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270

 Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285

 Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 202
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 202

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Ser Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr

275	280	285														
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly																
290	295	300														
<210> 203																
<211> 302																
<212> PRT																
<213> Artificial Sequence																
<220>																
<223> Description of Artificial Sequence: Synthetic peptide																
<400> 203																
Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys	
1				5				10					15			
Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Leu	Thr	Gly	Leu	Phe	Tyr	Phe	Cys	
		20					25					30				
Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val	
		35					40					45				
Met	Leu	Ser	Cys	Asp	Tyr	Ser	Thr	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu	
					50			55				60				
Arg	Ile	Tyr	Trp	Gln	Lys	Asp	Ser	Lys	Met	Val	Leu	Ala	Ile	Leu	Pro	
					65				70			75		80		
Gly	Lys	Val	Gln	Val	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Phe	Pro	Asp	
					85				90			95				
Ile	Ile	Asn	Asn	Leu	Ser	Leu	Met	Ile	Leu	Ala	Leu	Arg	Leu	Ser	Asp	
								100			105		110			
Lys	Gly	Thr	Tyr	Thr	Cys	Val	Val	Gln	Lys	Asn	Glu	Asn	Gly	Ser	Phe	
								115			120		125			
Arg	Arg	Glu	His	Leu	Thr	Ser	Val	Thr	Leu	Ser	Ile	Arg	Ala	Asp	Phe	
					130			135			140					
Pro	Val	Ser	Ser	Ile	Thr	Asp	Ile	Gly	His	Pro	Ala	Pro	Asn	Val	Lys	
							145			150		155		160		
Arg	Ile	Arg	Cys	Ser	Ala	Ser	Gly	Gly	Phe	Pro	Glu	Pro	Arg	Leu	Ala	
					165				170			175				
Trp	Met	Glu	Asp	Gly	Glu	Glu	Leu	Asn	Ala	Val	Asn	Thr	Thr	Val	Asp	
								180			185		190			
Gln	Asp	Leu	Asp	Thr	Glu	Glu	Leu	Tyr	Ser	Val	Ser	Ser	Glu	Leu	Asp	Phe
								195			200		205			
Asn	Val	Thr	Asn	Asn	His	Ser	Ile	Val	Cys	Leu	Ile	Lys	Tyr	Gly	Glu	
								210			215		220			

Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro
225 230 235 240

Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala
245 250 255

Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val
260 265 270

Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu
275 280 285

Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 204

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 204

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val
145 150 155 160

Lys Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu
165 170 175

Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
180 185 190

Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 205

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 205

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Asp Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp

100	105	110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala		
115	120	125
Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp		
130	135	140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile		
145	150	155
160		
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu		
165	170	175
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val		
180	185	190
Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
240		
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300

<210> 206

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 206

Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
1				5				10				15			

Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Leu	Thr	Gly	Leu	Phe	Tyr	Phe	Cys
20					25							30			

Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val
35						40						45			

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
 180 185 190

Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255

Ala Leu Val Leu Thr Ala Ala Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 207
 <211> 300
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic

peptide

<400> 207
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45
Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125
Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160
Arg Arg Leu Ile Cys Ser Gly Phe Pro Arg Pro His Leu Tyr Trp Leu
165 170 175
Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val Ser Gln Asp
180 185 190
Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe Asn Val
195 200 205
Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu Leu Ser
210 215 220
Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro Pro Ile
225 230 235 240
Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala Leu Val
245 250 255
Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val Ala Arg
260 265 270
Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu Arg Leu
275 280 285

Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 208

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 208

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Lys Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Leu Asn Ala Thr Asn Thr Thr Val
180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu

225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 209

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 209

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
180 185 190

Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 210

<211> 304

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 210

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
 115 120 125
 Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140
 Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val
 145 150 155 160
 Lys Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu
 165 170 175
 Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
 180 185 190
 Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Glu Leu Asp
 195 200 205
 Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
 210 215 220
 Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
 225 230 235 240
 Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
 245 250 255
 Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
 260 265 270
 Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Gly Lys
 275 280 285
 Cys Lys Val Leu Ser Val Ser Ile Gly Thr Lys Leu Lys Phe Asn Arg
 290 295 300

<210> 211
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 211
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu

50	55	60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro		
65	70	75
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90	95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp		
100	105	110
Lys Gly Thr Tyr Thr Cys Val Val Gln Lys Pro Asp Leu Lys Gly Ala		
115	120	125
Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp		
130	135	140
Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val		
145	150	155
Lys Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu		
165	170	175
Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val		
180	185	190
Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp		
195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300

<210> 212
 <211> 296
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 212

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
180 185 190

Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
210 215 220

Asp Leu Thr Val Ser Gln Ser Phe Tyr Trp Gln Glu Ser Lys Pro Thr
225 230 235 240

Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
245 250 255

Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
260 265 270

Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu
275 280 285

Met Gln Ser Cys Ser Gln Ser Pro
290 295

<210> 213
<211> 302
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 213
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45
Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110
Lys Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
115 120 125
Arg Arg Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe
130 135 140
Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys
145 150 155 160
Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala
165 170 175
Trp Met Glu Asp Gly Glu Leu Asn Ala Val Asn Thr Thr Val Asp
180 185 190
Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp Phe
195 200 205
Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu
210 215 220
Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro
225 230 235 240

Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala		
245	250	255
Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val		
260	265	270
Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu		
275	280	285
Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300

<210> 214
 <211> 296
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 214			
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys			
1	5	10	15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys		
20	25	30

Ser Gly Thr Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val		
35	40	45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu		
50	55	60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro			
65	70	75	80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90	95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Pro Ser Asp		
100	105	110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala		
115	120	125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp		
130	135	140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile			
145	150	155	160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu		
165	170	175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu

180	185	190
Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200	205
Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly		
210	215	220
Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr		
225	230	235
240		
Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser		
245	250	255
Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr		
260	265	270
Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu		
275	280	285
Met Gln Ser Cys Ser Gln Ser Pro		
290	295	

<210> 215

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 215

Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
1				5				10				15			

Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Leu	Thr	Gly	Leu	Phe	Tyr	Phe	Cys
20					25							30			

Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val
							35	40			45				

Met	Leu	Ser	Cys	Asp	Tyr	Asn	Thr	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu
50					55				60						

Arg	Ile	Tyr	Trp	Gln	Lys	Asp	Ser	Lys	Met	Val	Leu	Ala	Ile	Leu	Pro
65					70				75			80			

Gly	Lys	Val	Gln	Val	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Thr	Asp
							85	90			95				

Met	Asn	Asp	Asn	Pro	Arg	Ile	Val	Ile	Leu	Ala	Leu	Arg	Leu	Ser	Asp
						100		105			110				

Ser	Gly	Thr	Tyr	Thr	Cys	Val	Ile	Gln	Lys	Pro	Asp	Leu	Lys	Gly	Ala
						115		120			125				

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

 Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

 Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

 Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
 180 185 190

 Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

 Phe Asn Val Thr Asn Asn Arg Ser Ile Val Cys Leu Ile Lys Tyr Gly
 210 215 220

 Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
 225 230 235 240

 Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly
 245 250 255

 Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
 260 265 270

 Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
 275 280 285

 Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
 290 295 300

<210> 216
 <211> 296
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 216
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80
 Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95
 Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110
 Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125
 Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140
 Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160
 Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175
 Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val
 180 185 190
 Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205
 Phe Asn Thr Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
 210 215 220
 Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
 225 230 235 240
 Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
 245 250 255
 Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
 260 265 270
 Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu
 275 280 285
 Met Gln Ser Cys Ser Gln Ser Pro
 290 295

<210> 217
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 217
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys

1	5	10	15
Leu Trp Leu Ser Gln Leu Leu Val	Leu Thr Gly Leu Phe Tyr Phe Cys		
20	25		30
Ser Gly Ile Thr Pro Lys Ser Val	Thr Lys Arg Val Lys Glu Thr Val		
35	40		45
Met Leu Ser Cys Asp Tyr Asn Thr	Ser Thr Glu Glu Leu Thr Ser Leu		
50	55		60
Arg Ile Tyr Trp Gln Lys Asp Ser	Lys Met Val Leu Ala Ile Leu Pro		
65	70		75
Gly Lys Val Gln Val Trp Pro Glu	Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90		95
Met Asn Asp Asn Pro Arg Ile Val	Ile Leu Ala Leu Arg Leu Ser Asp		
100	105		110
Lys Gly Thr Tyr Thr Cys Val	Ile Gln Lys Pro Asp Leu Lys Gly Ala		
115	120		125
Tyr Lys Leu Glu His Leu Ala Ser	Val Arg Leu Met Ile Arg Ala Asp		
130	135		140
Phe Pro Val Pro Thr Ile Asn Asp	Leu Gly Asn Pro Ser Pro Asn Ile		
145	150		155
Arg Arg Leu Ile Cys Ser Thr Ser	Gly Phe Pro Arg Pro His Leu		
165	170		175
Tyr Trp Leu Glu Asn Gly Glu	Glu Leu Asn Ala Thr Asn Thr Val		
180	185		190
Ser Gln Asp Pro Gly Thr Glu	Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200		205
Phe Asn Val Thr Asn Asn His	Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215		220
Glu Leu Ser Val Ser Gln Ile	Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230		235
Pro Pro Ile Asp Gln Leu Pro	Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250		255
Ala Leu Val Leu Thr Ala Val Val	Leu Tyr Cys Leu Ala Cys Arg His		
260	265		270
Val Ala Arg Trp Lys Arg Thr	Arg Asn Glu Glu Thr Val Gly Thr		
275	280		285
Glu Arg Leu Ser Pro Ile Tyr	Leu Gly Ser Ala Gln Ser Ser Gly		
290	295		300

<210> 218
<211> 296
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 218
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45
Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
115 120 125
Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175
Tyr Trp Leu Glu Asn Gly Lys Glu Leu Asn Ala Thr Asn Thr Thr Leu
180 185 190
Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205
Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
210 215 220
Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
225 230 235 240
Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
245 250 255

Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
260 265 270

Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu
275 280 285

Met Gln Ser Cys Ser Gln Ser Pro
290 295

<210> 219

<211> 302

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 219

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
115 120 125

Arg Arg Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe
130 135 140

Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys
145 150 155 160

Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala
165 170 175

Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val Asp
180 185 190

Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp Phe
195 200 205

Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu
210 215 220

Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro
225 230 235 240

Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala
245 250 255

Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val
260 265 270

Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu
275 280 285

Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 220

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 220

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Arg Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp

130	135	140
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile		
145	150	155
160		
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu		
165	170	175
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu		
180	185	190
Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp		
195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
240		
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His		
260	265	270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300
<210> 221		
<211> 293		
<212> PRT		
<213> Artificial Sequence		
<220>		
<223> Description of Artificial Sequence: Synthetic peptide		
<400> 221		
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys		
1	5	10
15		
Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys		
20	25	30
Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val		
35	40	45
Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu		
50	55	60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro		
65	70	75
80		

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

 Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

 Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
 115 120 125

 Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

 Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

 Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

 Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
 180 185 190

 Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

 Phe Asn Met Thr Ser Asn Leu Cys Leu Val Lys Tyr Gly Asp Leu Thr
 210 215 220

 Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr Pro Ser Ala
 225 230 235 240

 Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser Ala Phe Gly
 245 250 255

 Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr Cys Arg Asn
 260 265 270

 Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu Met Gln Ser
 275 280 285

 Cys Ser Gln Ser Pro
 290

<210> 222
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 222
 Met Ser His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15

Leu Lys Phe Phe Gln Phe Leu Val Leu Ala Ser Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

Ser Cys Gly Leu Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

Tyr Trp Gln Lys Gly Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
 145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
 165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Ala Ser Gln Asp
 180 185 190

Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
 245 250 255

Ile Phe Val Ile Cys Cys Leu Thr His Cys Phe Ala Pro Arg Cys Arg
 260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Ala Arg Pro Val
 275 280 285

<210> 223
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 223

Met Gly Tyr Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Pro Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn Arg Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Arg Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Cys Pro Val

275

280

285

<210> 224
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 224
Met Gly Tyr Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15
Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
20 25 30
Ser Gly Val Ile His Val Thr Lys Lys Val Lys Glu Val Ala Thr Leu
35 40 45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60
His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125
Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140
Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190
Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205
Thr Thr Asp Arg Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Gly Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 225

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 225

Met Ser His Thr Gln Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val His Pro Val
275 280 285

<210> 226

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 226

Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Leu Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile

145	150	155	160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu			
165	170	175	
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp			
180	185	190	
Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met			
195	200	205	
Thr Ala Asn His Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg			
210	215	220	
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro			
225	230	235	240
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly			
245	250	255	
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Gly Cys Arg			
260	265	270	
Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Cys Pro Val			
275	280	285	

<210> 227

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 227

Met Ser His Ile Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr			
1	5	10	15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys			
20	25	30	

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu			
35	40	45	

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile			
50	55	60	

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp			
65	70	75	80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr			
85	90	95	

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly			
100	105	110	

Thr	Tyr	Glu	Cys	Val	Val	Leu	Lys	Tyr	Glu	Lys	Asp	Ala	Phe	Lys	Arg
115						120						125			
Glu	His	Leu	Ala	Glu	Val	Thr	Leu	Ser	Val	Lys	Ala	Asp	Phe	Pro	Thr
130						135						140			
Pro	Ser	Ile	Ser	Asp	Phe	Glu	Ile	Pro	Pro	Ser	Asn	Ile	Arg	Arg	Ile
145						150					155		160		
Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Glu	Pro	Arg	Leu	Ala	Trp	Met
	165						170				175				
Glu	Asp	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Ala	Ser	Gln	Asp
	180						185				190				
Pro	Glu	Thr	Glu	Leu	Tyr	Thr	Val	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met
	195						200				205				
Thr	Thr	Asn	Arg	Ser	Phe	Val	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg
	210						215				220				
Val	Asn	Gln	Thr	Phe	Asn	Trp	Asn	Thr	Pro	Lys	Gln	Glu	His	Phe	Pro
	225						230			235			240		
Asp	Asn	Leu	Phe	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Val	Asn	Gly
	245						250			255					
Ile	Phe	Val	Ile	Cys	Cys	Leu	Thr	Tyr	Cys	Phe	Ala	Pro	Arg	Cys	Arg
	260						265			270					
Glu	Arg	Arg	Arg	Asn	Glu	Arg	Leu	Arg	Arg	Glu	Ser	Val	Arg	Pro	Val
	275						280			285					

<210> 228

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 228

Met	Ser	His	Thr	Arg	Arg	Gln	Gly	Thr	Ser	Pro	Ser	Lys	Cys	Pro	Tyr
1						5				10			15		

Leu	Lys	Phe	Phe	Gln	Leu	Leu	Val	Leu	Ala	Ser	Leu	Ser	His	Phe	Cys
							20			25			30		

Ser	Gly	Val	Ile	His	Met	Thr	Lys	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu
							35			40			45		

Ser	Cys	Gly	Pro	Asn	Val	Ser	Val	Glu	Glu	Leu	Ala	Gln	Thr	Arg	Ile
							50			55			60		

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
 145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
 165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
 180 185 190

Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
 245 250 255

Ile Phe Val Ile Cys Cys Leu Thr His Cys Phe Ala Pro Arg Cys Arg
 260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Cys Pro Val
 275 280 285

<210> 229
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 229
 Met Ser His Thr Arg Arg Gln Gly Ile Ser Ser Ser Lys Cys Pro Tyr
 1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys

20	25	30
Ser Gly Val Ile His Val Thr Lys Lys Val Lys Glu Val Ala Thr Leu		
35	40	45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile		
50	55	60
Tyr Trp Gln Lys Gly Lys Lys Met Val Leu Thr Met Met Ser Gly Asp		
65	70	75
Met Asn Ile Trp Pro Glu Cys Lys Asn Arg Thr Ile Phe Asp Ile Thr		
85	90	95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly		
100	105	110
Thr Tyr Glu Cys Ala Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg		
115	120	125
Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr		
130	135	140
Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile		
145	150	155
160		
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu		
165	170	175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Ala Ser Gln Asp		
180	185	190
Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met		
195	200	205
Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg		
210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro		
225	230	235
240		
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly		
245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg		
260	265	270
Glu Arg Lys Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val		
275	280	285

<210> 230

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 230

Met Gly Tyr Thr Arg Arg Gln Gly Thr Ser Pro Ser Glu Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Met Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly Leu Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Gly Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 231
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 231
Met Ser His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15
Leu Asn Phe Phe Arg Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
20 25 30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60
His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125
Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140
Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190
Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205
Thr Ala Asn His Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 232

<211> 300

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (298)

<223> Variable amino acid

<400> 232

Met Ser His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu His Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Val	Ser	Gln	Asp
180									185					190	
Pro	Glu	Thr	Glu	Leu	Tyr	Thr	Gly	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met
195							200						205		
Thr	Thr	Asn	His	Ser	Phe	Met	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg
210						215				220					
Val	Asn	Gln	Thr	Phe	Ser	Trp	Asn	Thr	Pro	Lys	Gln	Glu	His	Phe	Pro
225					230				235				240		
Asp	Asn	Leu	Leu	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Ala	Asn	Gly
				245					250				255		
Ile	Phe	Val	Ile	Cys	Cys	Leu	Thr	Tyr	Cys	Phe	Ala	Pro	Arg	Cys	Arg
				260				265				270			
Glu	Arg	Arg	Arg	Asn	Glu	Thr	Leu	Arg	Arg	Glu	Ser	Val	Arg	Pro	Val
				275			280				285				
Trp	Gly	Thr	Lys	Leu	Lys	Phe	Lys	Pro	Xaa	Ile	Ser				
				290		295				300					

<210> 233

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 233

Met	Gly	His	Thr	Arg	Arg	Gln	Gly	Ile	Ser	Pro	Ser	Lys	Cys	Pro	Tyr
1						5			10				15		

Leu	Lys	Phe	Phe	Gln	Leu	Leu	Val	Leu	Ala	Ser	Leu	Ser	His	Phe	Cys
					20			25				30			

Ser	Gly	Val	Ile	His	Val	Thr	Lys	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu
					35			40				45			

Ser	Cys	Gly	Leu	Asn	Val	Ser	Val	Glu	Glu	Leu	Ala	Gln	Thr	Arg	Ile
					50			55			60				

Tyr	Trp	Gln	Lys	Glu	Lys	Lys	Met	Val	Leu	Thr	Met	Met	Ser	Gly	Asp
					65			70			75		80		

Met	Asn	Ile	Trp	Pro	Glu	His	Lys	Asn	Arg	Thr	Ile	Phe	Asp	Ile	Thr
							85			90			95		

Asn	Asn	Leu	Ser	Ile	Val	Ile	Leu	Ala	Leu	Arg	Pro	Ser	Asp	Glu	Gly
					100			105			110				

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125
 Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140
 Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
 145 150 155 160
 Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
 165 170 175
 Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Ala Ser Gln Asp
 180 185 190
 Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205
 Thr Ala Asn His Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220
 Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240
 Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
 245 250 255
 Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
 260 265 270
 Glu Arg Arg Arg Asn Glu Thr Leu Arg Arg Glu Ser Val Arg Pro Val
 275 280 285

<210> 234
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 234
 Met Gly Tyr Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15
 Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
 20 25 30
 Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45
 Ser Cys Gly His Asn Val Pro Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60
 Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp

65	70	75	80
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr			
85	90		95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly			
100	105		110
Thr Tyr Gly Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg			
115	120		125
Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr			
130	135	140	
Pro Ser Ile Thr Asp Leu Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile			
145	150	155	160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu			
165	170		175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Ala Ser Gln Asp			
180	185		190
Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met			
195	200		205
Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg			
210	215		220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro			
225	230	235	240
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly			
245	250		255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg			
260	265		270
Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val His Pro Val			
275	280		285

<210> 235
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 235
 Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15
 Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

Tyr Trp Gln Lys Asp Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Gln Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Gln
 115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
 145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala Trp Met
 165 170 175

Glu Asp Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Val Ser Gln Asp
 180 185 190

Pro Gly Thr Glu Leu Cys Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Arg Tyr Gly His Leu Arg
 210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Lys Gly
 245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Gly Arg
 260 265 270

Glu Arg Lys Ser Asn Gly Arg Leu Arg Arg Glu Ser Val His Pro Val
 275 280 285

<210> 236
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic

peptide

<220>

<221> MOD_RES

<222> (200)

<223> Variable amino acid

<400> 236

Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Ala Xaa Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Pro Thr Tyr Cys Phe Ala Pro Arg Cys Arg

260

265

270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Cys Pro Val
275 280 285

<210> 237

<211> 287

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 237

Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile Tyr Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Ile Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg Glu
115 120 125

His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr Pro
130 135 140

Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile Ile
145 150 155 160

Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu Glu
165 170 175

Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp Pro
180 185 190

Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met Thr
195 200 205

Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg Val
210 215 220

Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro Asp
225 230 235 240

Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly Ile
245 250 255

Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg Glu
260 265 270

Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Cys Pro Val
275 280 285

<210> 238

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 238

Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Gly Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Ala Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 239

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 239

Met Gly Tyr Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Val Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr

130	135	140
Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile		
145	150	155
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu		
165	170	175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp		
180	185	190
Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met		
195	200	205
Thr Thr Asn Arg Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg		
210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro		
225	230	235
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly		
245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg		
260	265	270
Glu Arg Lys Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val		
275	280	285

<210> 240
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 240
 Met Gly Tyr Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn	Asn	Leu	Ser	Ile	Val	Ile	Leu	Ala	Leu	Arg	Pro	Ser	Asp	Glu	Gly
100							105							110	
Thr	Tyr	Glu	Cys	Val	Val	Leu	Lys	Tyr	Glu	Lys	Asp	Ala	Phe	Lys	Arg
115							120							125	
Glu	His	Leu	Ala	Glu	Val	Met	Leu	Ser	Val	Lys	Ala	Asp	Phe	Pro	Thr
130						135								140	
Pro	Ser	Ile	Thr	Asp	Phe	Glu	Ile	Pro	Pro	Ser	Asn	Ile	Arg	Arg	Ile
145						150					155			160	
Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Glu	Pro	Arg	Leu	Ala	Trp	Met
	165						170							175	
Glu	Asp	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Val	Ser	Gln	Asp
	180						185							190	
Pro	Gly	Thr	Glu	Leu	Tyr	Ala	Val	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met
	195						200							205	
Thr	Thr	Asn	His	Ser	Phe	Met	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg
	210					215					220				
Val	Asn	Gln	Thr	Phe	Asn	Trp	Asn	Thr	Pro	Lys	Gln	Glu	His	Phe	Pro
225						230				235			240		
Asp	Asn	Leu	Leu	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Val	Asn	Gly
	245						250							255	
Ile	Ser	Val	Ile	Cys	Cys	Leu	Thr	Tyr	Cys	Phe	Ala	Pro	Arg	Cys	Arg
	260						265							270	
Glu	Arg	Arg	Arg	Asn	Glu	Arg	Leu	Arg	Arg	Glu	Ser	Val	Cys	Pro	Val
	275						280							285	
<210> 241															
<211> 288															
<212> PRT															
<213> Artificial Sequence															
<220>															
<223> Description of Artificial Sequence: Synthetic peptide															
<400> 241															
Met	Ser	His	Thr	Arg	Arg	Gln	Gly	Ile	Ser	Pro	Ser	Lys	Cys	Pro	Tyr
1						5				10					15
Leu	Lys	Phe	Phe	Gln	Leu	Leu	Val	Leu	Ala	Gly	Leu	Ser	His	Phe	Cys
	20						25							30	
Ser	Gly	Val	Ile	His	Val	Thr	Lys	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu
	35						40							45	

Ser Cys Gly His Asn Val Ser Ala Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
 145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala Trp Met
 165 170 175

Glu Asp Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Ala Ser Gln Asp
 180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
 245 250 255

Ile Phe Val Ile Cys Cys Leu Thr His Cys Phe Ala Pro Arg Cys Arg
 260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Cys Pro Val
 275 280 285

<210> 242
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 242
 Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr

1	5	10	15												
Leu	Lys	Phe	Phe	Gln	Leu	Leu	Val	Leu	Ala	Gly	Leu	Ser	His	Phe	Cys
				20				25					30		
Ser	Gly	Val	Ile	His	Val	Thr	Lys	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu
				35				40					45		
Ser	Cys	Gly	Leu	Asn	Val	Ser	Val	Glu	Glu	Leu	Ala	Gln	Thr	Arg	Ile
	50				55					60					
His	Trp	Gln	Lys	Glu	Lys	Met	Val	Leu	Thr	Met	Met	Ser	Gly	Asp	
	65				70				75			80			
Met	Asn	Ile	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Phe	Asp	Ile	Thr
								85		90			95		
Asn	Asn	Leu	Ser	Ile	Val	Ile	Leu	Ala	Leu	Arg	Pro	Ser	Asp	Glu	Gly
								100		105			110		
Thr	Tyr	Glu	Cys	Val	Val	Leu	Lys	Tyr	Glu	Lys	Asp	Ala	Phe	Lys	Arg
								115		120			125		
Glu	His	Leu	Ala	Glu	Val	Met	Leu	Ser	Val	Lys	Ala	Asp	Phe	Pro	Thr
						130		135			140				
Pro	Ser	Ile	Thr	Asp	Phe	Glu	Ile	Pro	Pro	Ser	Asn	Ile	Arg	Arg	Ile
							145		150			155		160	
Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Glu	Pro	His	Leu	Ser	Trp	Leu
							165		170			175			
Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Val	Ser	Gln	Asp
						180			185			190			
Pro	Gly	Thr	Glu	Leu	Tyr	Thr	Val	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met
						195		200			205				
Thr	Thr	Asn	His	Ser	Phe	Met	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg
							210		215			220			
Val	Asn	Gln	Thr	Phe	Asn	Trp	Asn	Thr	Pro	Lys	Gln	Glu	His	Phe	Pro
							225		230			235		240	
Asp	Asn	Leu	Leu	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Ala	Asn	Gly
							245			250			255		
Ile	Phe	Val	Ile	Cys	Cys	Leu	Thr	Tyr	Cys	Phe	Ala	Pro	Arg	Cys	Arg
							260		265			270			
Glu	Arg	Lys	Ser	Asn	Glu	Arg	Leu	Arg	Arg	Glu	Ser	Val	Cys	Pro	Val
							275		280			285			

<210> 243
 <211> 287
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 243

Met Gly Tyr Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Asp Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Ala Ile Thr Leu Ile Ser Ala Asn Gly Ile
245 250 255

Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg Glu
260 265 270

Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Ile His Pro Val
275 280 285

<210> 244
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 244
Met Gly Tyr Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15
Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Leu Cys
20 25 30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45
Pro Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60
His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125
Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140
Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
165 170 175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190
Pro Gly Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205
Thr Thr Asn His Asn Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 245

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 245

Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Leu Cys
20 25 30

Ser Gly Val Ile His Met Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Ala Leu Lys Tyr Glu Lys Asp Ala Phe Lys Gln
115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala Trp Met
165 170 175

Glu Asp Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp

180	185	190
Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met		
195	200	205
Thr Ala Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg		
210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro		
225	230	235
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly		
245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg		
260	265	270
Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Cys Pro Val		
275	280	285
<210> 246		
<211> 288		
<212> PRT		
<213> Artificial Sequence		
<220>		
<223> Description of Artificial Sequence: Synthetic peptide		
<400> 246		
Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr		
1	5	10
15		
Leu Lys Phe Phe Gln Leu Leu Gly Leu Ala Cys Leu Ser His Phe Cys		
20	25	30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu		
35	40	45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile		
50	55	60
His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp		
65	70	75
80		
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr		
85	90	95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Leu Ser Asp Glu Gly		
100	105	110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg		
115	120	125
Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr		
130	135	140

Pro	Ser	Ile	Ser	Asp	Phe	Glu	Ile	Pro	Thr	Ser	Asn	Ile	Arg	Arg	Ile
145					150					155			160		
Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Glu	Pro	His	Leu	Phe	Trp	Leu
	165						170				175				
Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Ala	Ser	Gln	Asp
	180					185				190					
Pro	Glu	Thr	Glu	Leu	Tyr	Thr	Val	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met
	195					200				205					
Thr	Thr	Asn	Arg	Ser	Phe	Val	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg
	210					215				220					
Val	Asn	Gln	Thr	Phe	Asn	Trp	Asn	Thr	Pro	Lys	Gln	Glu	His	Phe	Pro
	225					230			235			240			
Asp	Asn	Leu	Leu	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Val	Asn	Gly
	245						250				255				
Ile	Phe	Val	Ile	Cys	Cys	Leu	Thr	Tyr	Cys	Phe	Ala	Pro	Arg	Cys	Arg
	260						265				270				
Glu	Arg	Arg	Arg	Asn	Glu	Arg	Leu	Arg	Arg	Glu	Ser	Val	Arg	Pro	Val
	275					280				285					

<210> 247

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 247

Met	Ser	His	Thr	Arg	Arg	Gln	Gly	Ile	Ser	Pro	Ser	Lys	Cys	Pro	Tyr
1					5				10			15			

Leu	Lys	Phe	Phe	Gln	Leu	Leu	Val	Leu	Ala	Cys	Leu	Ser	His	Phe	Cys
					20			25			30				

Ser	Gly	Val	Ile	His	Val	Thr	Lys	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu
						35		40			45				

Ser	Cys	Gly	His	Asn	Val	Ser	Val	Glu	Glu	Leu	Ala	Gln	Thr	Arg	Ile
						50		55			60				

His	Trp	Gln	Lys	Glu	Lys	Lys	Met	Val	Leu	Thr	Met	Met	Ser	Gly	Asp
65							70			75			80		

Met	Asn	Ile	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Phe	Asp	Ile	Thr
					85				90			95			

Asn	Asn	Leu	Ser	Ile	Val	Ile	Leu	Ala	Leu	Arg	Pro	Ser	Asp	Glu	Gly
100							105							110	
Thr	Tyr	Glu	Cys	Val	Val	Leu	Lys	Tyr	Glu	Lys	Asp	Ala	Phe	Lys	Arg
115							120							125	
Lys	His	Leu	Ala	Glu	Val	Met	Leu	Ser	Val	Lys	Ala	Asp	Phe	Pro	Thr
130						135								140	
Pro	Ser	Ile	Ser	Asp	Phe	Glu	Ile	Pro	Thr	Ser	Asn	Ile	Arg	Arg	Ile
145						150					155			160	
Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Glu	Pro	His	Leu	Phe	Trp	Leu
						165			170					175	
Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Ala	Ser	Gln	Asp
						180			185					190	
Pro	Glu	Thr	Glu	Leu	Tyr	Thr	Val	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met
						195			200					205	
Thr	Thr	Asn	Arg	Ser	Phe	Val	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg
						210			215					220	
Val	Asn	Gln	Thr	Phe	Asn	Trp	Asn	Thr	Pro	Lys	Gln	Glu	His	Phe	Pro
						225			230					240	
Asn	Asn	Leu	Leu	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Val	Asn	Gly
						245			250					255	
Ile	Phe	Val	Ile	Cys	Cys	Leu	Thr	Tyr	Cys	Phe	Ala	Pro	Arg	Cys	Arg
						260			265					270	
Glu	Arg	Arg	Arg	Asn	Glu	Thr	Leu	Arg	Arg	Glu	Ser	Val	His	Pro	Val
						275			280					285	

<210> 248

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 248

Met	Gly	His	Thr	Arg	Arg	Gln	Gly	Thr	Ser	Pro	Ser	Lys	Cys	Pro	Tyr
1						5			10					15	

Leu	Lys	Phe	Phe	Gln	Leu	Leu	Val	Leu	Ala	Gly	Leu	Ser	His	Phe	Cys
						20			25					30	

Ser	Gly	Val	Ile	His	Val	Thr	Lys	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu
							35		40					45	

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile

50	55	60
Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp		
65	70	75
Met Asn Ile Trp Pro Glu His Lys Asn Arg Thr Ile Phe Asp Ile Thr		
85	90	95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly		
100	105	110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg		
115	120	125
Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr		
130	135	140
Pro Ser Ile Thr Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile		
145	150	155
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu		
165	170	175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp		
180	185	190
Pro Gly Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met		
195	200	205
Thr Thr Asn Arg Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg		
210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro		
225	230	235
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly		
245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg		
260	265	270
Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val		
275	280	285

<210> 249
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 249
 Met Ser His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Ser Leu Ser His Phe Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Pro Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Arg Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
 145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
 165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Ala Ser Gln Asp
 180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205

Thr Thr Asn Arg Ser Phe Val Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly
 245 250 255

Ile Phe Val Ile Cys Cys Leu Thr His Cys Phe Ala Pro Arg Cys Arg
 260 265 270

Glu Arg Lys Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
 275 280 285

<210> 250
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 250

Met	Ser	His	Thr	Arg	Arg	Gln	Gly	Ile	Ser	Pro	Ser	Lys	Cys	Pro	Tyr
1				5				10					15		
Leu	Lys	Phe	Phe	Gln	Leu	Leu	Val	Leu	Ala	Gly	Leu	Ser	His	Phe	Cys
	20						25					30			
Ser	Gly	Val	Ile	His	Val	Thr	Lys	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu
	35					40					45				
Ser	Cys	Gly	His	Asn	Val	Ser	Val	Glu	Glu	Leu	Ala	Gln	Thr	Arg	Ile
	50					55					60				
His	Trp	Gln	Lys	Glu	Lys	Met	Val	Leu	Thr	Met	Met	Ser	Gly	Gly	
	65				70			75				80			
Met	Asn	Ile	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Phe	Asp	Ile	Thr
		85					90					95			
Asn	Asn	Leu	Ser	Ile	Val	Ile	Leu	Ala	Leu	Arg	Pro	Ser	Asp	Glu	Gly
		100					105					110			
Thr	Tyr	Glu	Cys	Val	Val	Leu	Lys	Tyr	Glu	Lys	Asp	Ala	Phe	Lys	Arg
		115				120					125				
Glu	His	Leu	Ala	Glu	Val	Thr	Leu	Ser	Val	Lys	Ala	Asp	Phe	Pro	Thr
		130				135					140				
Pro	Ser	Ile	Ser	Asp	Phe	Glu	Ile	Pro	Thr	Ser	Asn	Ile	Arg	Arg	Ile
	145			150				155				160			
Ile	Cys	Ser	Thr	Ser	Gly	Gly	Phe	Pro	Glu	Pro	His	Leu	Ser	Trp	Leu
		165				170					175				
Glu	Asn	Gly	Glu	Glu	Leu	Asn	Ala	Ile	Ser	Thr	Thr	Val	Ser	Gln	Asp
		180					185					190			
Pro	Gly	Thr	Glu	Leu	Tyr	Ala	Val	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met
		195					200					205			
Thr	Thr	Asn	Arg	Ser	Phe	Val	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg
		210				215					220				
Val	Asn	Gln	Thr	Phe	Asn	Trp	Asn	Thr	Thr	Lys	Gln	Glu	His	Phe	Pro
	225				230				235			240			
Asp	Asn	Leu	Leu	Pro	Ser	Trp	Ala	Ile	Thr	Leu	Ile	Ser	Val	Asn	Gly
		245					250					255			
Ile	Phe	Val	Ile	Cys	Cys	Leu	Thr	Tyr	Cys	Phe	Ala	Pro	Arg	Cys	Arg
		260				265					270				

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 251
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 251
Met Gly Tyr Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Glu Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Gly Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro

225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Ala Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Gly Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 252

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 252

Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys
20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Pro Gly Gly Phe Pro Glu Pro Arg Leu Ala Trp Met
165 170 175

Glu Asp Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Val Ser Gln Asp
180 185 190

Pro Gly Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Lys Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Trp Arg
260 265 270

Glu Arg Lys Ser Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 253

<211> 880

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 253

atgggccaca cgctgaggcc gggactcca ctgccagggt gtctacacct caagctctgc 60
ctgctttgg cgctggcggt tctccacttc tcttcaggtt tcagccaggc caccaggctcg 120
gtgaaagaaa tggcagcaact gtcctgtgtat tacaacattt ctatcgatgt actggcgaga 180
atgcgcataat actggcagaa ggaccaacag atgggtgtga gcatcatctc tggcaagtg 240
gaagtgtggc ctgagtacaa aaaccgcacc ttccccgaca tcattaacaa cctctccctt 300
atgatcctgg cactgcgcct gtcggacaag ggcacctaca cctgcgtgtt tcagaagaat 360
gagaacgggt ctttcagacg ggagcacctg acctccgtga cactgtccat cagagctgac 420
ttccctgtcc cttagcataaa tgatcttggaa aatccatctc ctaatatcg aaggctaatt 480
tgctcaaccc ctggagggtt tccaaggccc cacctctact gttggaaaa tggagaagaa 540
ttaaatgcta ccaacacaac actgtcccaa gatcctgaaa ccaagctcta catgattagc 600
agtgaactgg atttcaacat gacaagcaat cacagttct tttgtcttgc caagtatgg 660
gacttaacag tgtcacagac cttctactgg caagaatcca aaccaacccc ttctgctaat 720
cagcacctga cctggaccat tattatccca gtctcagcat ttgggatttc tgtgtatcatt 780
gcagttatac taacatgcct gacctgcaga aatgctgcaa tacgcagaca gagaagggag 840
aatgaagtgg aaatgcaaaat ttgtctcag tctccatgag 880

<210> 254

<211> 891

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 254

atgggtcaca caatggagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctttgg tgctcactgg tctttttac ttctgttcag gcatttcaccc aaagagtgcg 120
acccaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccgatcta ttggcaaaag gatagaaaaa tggtgctgc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgcacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggcctg atttggaaagg ggcttataaa ctggagcacc tgacttccgt gaggttaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa ttgcgtcaac ctctggaggt ttccaaaggc cccacccctt ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atcacagctt cttgtgttctt 660
gtcaagtatg gagacttaac agtgcacag accttctact ggcaagaatc caaaccacc 720
cctctgcta atcagcacct gacctggacc attattatcc cagtctcagc atttggatt 780
tctgtatca ttgcgttat actaacatgc ctgacccgtca gaaatgtgc aatacgcaga 840
cagagaaggg agaatgaagt gggaaatgcaa agttgtctc agtctccata g 891

<210> 255
<211> 889
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 255
atggccaca caatggagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctttgg tgctcactgg tctttttac ttctgttcag gcatttcaccc aaagagtgcg 120
acccaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccgatcta ttggcaaaag gatagaaaaa tggtgctgc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tcactgcacat gaacgataac 300
ccccgttattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgcgtggtt 360
cagaagaatg agaacgggtc ttccagacgg gggacccatc cctccgtgag gttaatgatc 420
agagctact tccctgtccc taccataat gatctggaa atccatctcc taatatcaga 480
aggctaattt gctcaacccctc tgagggtttt ccaaggcccc acctctactg gttgaaaat 540
ggagaagaat taaatgtac caacacaaca ctgccccaaatcctgaaac caagctctac 600
atgattagca gtgaactgga ttcaacatg acaagcaatc acagcttctt gtgtttgtc 660
aagtatggag acttaacagt gtcacagacc ttctactggc aagaatccaa accaaccct 720
tctgtatca agcacctgac ctggaccatt attatccag tctcagcatt tggatttctt 780
gtgatcattt cagttatact aacatgcctg acctgcagaa atgctgcaat acgcagacag 840
agaagggaga atgaagtggaa aatgcaaaatg tgcgtctc agtctccata g 889

<210> 256
<211> 888
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 256
atgggtcaca caatggagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctttgg tgctcactgg tctttttac ttctgttcag gcatttcaccc aaagagtgcg 120
acccaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180

ctgacaagcc ttcggatcta ttggcaaaag gatagaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacaagg gcacctacac ctgcgtggtt 360
cagaagaatg agaacgggtc tttcagacgg gagcacctga cttccgtgag gttaatgatc 420
agagctgact tccctgtccc taccataaat gatcttggaa atccatctcc taatatcaga 480
aggctaattt gctcaacctc tgagggttt ccaaggcccc acctctactg gttggaaaat 540
ggagaagaat taaatgtac caacacaaca ctgtcccaag atcctgaaac caagctctac 600
atgatttagca gtgaactgga ttcaacatg acaagacaatc acagcttctt gtgtcttg 660
aagtatggag acttaacagt gtcgcagacc ttctactggc aagaatccaa accaaccct 720
tctgctaattc agcacctgac ctggaccatt attatcccag tctcagcatt tgggatttct 780
gtgatcattg cagttatact aacatgcctg acctgcagaa atgctgaaat acgcagacag 840
agaaggaga atgaagtggaa gatgcaaaatg tgctctcagg ctccatag 888

<210> 257

<211> 891

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 257

atgggtcaca caatgaagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagcttttgg tgctcaactgg tcttttttac ttcttggtag gcattcacccc aaagagtgtg 120
accaaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaag gatagaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacagtgc gcacctacac ctgtgtttatt 360
cagaaggctg atttggaaagg ggcttataaa ctggagcacc tgacttcgtt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatcttg gaaatccatc tcctaatatc 480
agaaggctaa ttgctcaac ctctggagggt tttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atcacagctt ctgtgtctt 660
gtcaagttatg gagacttaac agtgtcacag accttctact ggcaagaatc caaaccacc 720
ccttctgcta atcagcacct gacctggacc attattatcc cagttctcagc atttgggatt 780
tctgtatca ttgcaggattt actaacatgc ctgacccatc gaaatgtgc aatacgcaga 840
cagagaaggaga agaatgaatgcaaaatg agttgtctc agtctccatag a 891

<210> 258

<211> 910

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 258

atgggtcaca caatgaagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagcttttgg tgctcaactgg tcttttttac ttcttggtag gcattcacccc aaagagtgtg 120
accaaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaag gatagaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggc tgagtacaag aaccgcacca tcactgacat gaacgataac 300
ccccgtattg tgatcctggc tctgcgcctg tcggacacagg gcacctacac ctgcgtggtt 360

cagaagaatg agaacgggtc tttcagacgg gagcacctga cctccgtgac actgtccatc 420
agagctgact tccctgtccc tagcataact gacattggac atcccgcccc taatgtgaaa 480
aggataagat gctccgcctc tgaggttt ccagagcctc gcctctactg gttggaaaat 540
ggagaagaat taaatgctac caacacaaca gtttccaag atcctggAAC tgagctctac 600
atgattagca gtgaactgga ttcaatgtg acaaataacc acagcatcg gtgtctcatc 660
aaatacgggg agctgtcggt gtcacagatc ttcccttggc gcaaaccCAA gcaggagcct 720
cccattgatc agcttcatt ctgggtcatt atcccAGTAA gtggtgcTTT ggtgctact 780
gcgttagttc tctactgcct ggcctgcaga catgtgcga ggtggaaaag aacaagaagg 840
aatgaagaga cagtggAAC tggaaaggctg tcccctatct acttaggctc tgcgcaatcc 900
tcgggctgag 910

<210> 259
<211> 888
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 259
atggatcaca caatgaagtggatcacta ccacccaAGC gcccattgcct ctggctct 60
cagctttgg tgctcaactgg tctttttac ttctgttcAGC gcatcaccCCC aaagagtgtg 120
accAAAAGAG tgaaAGAAAC agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaAGCC ttccggatcta ttggcaAAAG gatagtaAAA ttggtgcTggc catcctgcct 240
ggAAAAGTGC aggtgtggcc tgagtacaAG aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacaagg gcacctacac ctgcgtggTT 360
cagaagaatg agaacgggtc ttccAGACGG gggcacctga cctccgtgac actgtccatc 420
agagctgact ttccgtccc taccataAAAT gatctggAA atccatctcc taatatcaga 480
aggctaattt gctcaacccC tggaggTTT ccaaggCCCC acctctactg gttggaaaat 540
ggagaagaat taaatgctac caacacaaca ctgtcccaAG atcctgaaAC caagctctac 600
atgattagca gtgaactgga ttcaacatcg acaAGCAATC acagcttTTT gtgtcttgTC 660
aagtatggag acttaacagt gtcacagacC ttctactggc aagaatccAA accaaccCCT 720
tctgctaattc agcacctgac ctggaccatt attatcccgg tctcagcatt tgggatttCT 780
gtgatcattt cagttatact aacatgcctg acctgcAGAA atgctgcaat acgcagacag 840
agaagggaga atgaagtggA aatgcAAAGT tgctctcAGT ctccatAG 888

<210> 260
<211> 888
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 260
atgggtcaca caatgaagtggatcacta ccacccaAGC gcccattgcct ctggctct 60
cagctttgg tgcccactgg tctttttac ttctgttcAGC gtatcaccCCC aaagagtgtg 120
accAAAAGAG tgaaAGAAAC agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaAGCC ttccggatcta ttggcaAAAG gatagtaAAA ttggtgcTggc catcctgcct 240
ggAAAAGTGC aggtgtggcc tgagtacaAG aaccgcacca tcactgacat gaacgataac 300
ccccgtattt tgatcctggc tctgcgcctg tcggacaagg gcacctacac ctgcgtggTT 360
cagaagaatg agaacgggtc ttccAGACGG gggcacctga cctccgtgac actgtccatc 420
agagctgact ttccgtccc taccataAAAT gatctggAA atccatctcc taatatcaga 480

aggctaattt gctcaacctc tggagggtttt ccaaggcccc acctctactg gttggaaaat 540
ggagaagaat taaatgtac caacacaaca ctgtcccaag atcctgaaac caagctctac 600
atgattagca gtgaactgga tttcaacatg acaagaatc acagcttctt gtgtcttgc 660
aagtatggag acttaacagt gtcacagacc ctctactggc aagaatccaa accaaccct 720
tctgctaattc agcacctgac ctggaccatt attatcccag tctcagcatt tgggatttct 780
gtgatcattg cagttatact aacatgcctg acctgcagaa atgctgcaat acgcagacag 840
agaaggaga atgaagtgga aatgcaaagt tgctctcagt ctccatga 888

<210> 261
<211> 891
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 261
atgggtcaca cagtgaagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctcttgg tgctcaactgg tctttttac ttctgttcag gcatcaccctt aaagagtgtg 120
accaaaaagag tgaaagaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagaaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagttacaag aaccggccatc tcactgacat gaacgataac 300
cccccgtattt tgatccctggc tctgccccctg tcggacagtg gcacctacac ctgttttatt 360
cagaagcctg atttggaaagg ggcttataaa ctggggcacc tgacttccgtt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaatatc 480
agaaggctaa ttgcctcaac ctctggaggt tttccaaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atcacagctt cttgtgtctt 660
gtcaagtatg gagacttaac agtgtcacag accttctact ggcaagaatc caaaccaccc 720
ccttctgcta atcagcacctt gacctggacc atttattatcc cagttctcagc atttgggattt 780
tctgtgtatca ttgcagttt actaacatgc ctgacactgca gaaatgctgc aatacgcaga 840
cagagaaggaa agaatgaagt ggaaatgcaa agttgctctc agtctccatg a 891

<210> 262
<211> 910
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 262
atgggtcaca caatgaagtg gggatcacta ccacccaagc gcccattgcct ctggctctct 60
cagctcttgg tgctcaactgg tctttttac ttctgttcag gcatcaccctt aaagagtgtg 120
accaaaaagag tgaaagaaac agtaatgcta tcctgtgatt acagcacatc cactgaagaa 180
ctgacaagcc ttccggatcta ttggcaaaaag gatagaaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgagttacaac aaccggccatc tcccccacat cattaacaac 300
ctctccctta tgatccctggc actgcgcctg tcggacaggg gcacctacac ctgcgtggtt 360
cagaagaatg agaacgggtc tttcagacgg gagcacctga cctccgtgac actgtccatc 420
agagctgact tccctgtccc tagcataact gacattggac atcccggcccc taatgtgaaa 480
aggataagat gctccgcctc tgagggtttt ccagagcctc gcctcgccctg gatgaaagat 540
ggagaagaac taaacggcgtaa acacacgacg gttgaccagg atttggacac ggagctctac 600
agcgtcggca gtgaactgga tttcaatgtg acaaataacc acagcatcgt gtgtctcatc 660

aatatacgaaa agctgtcggt gtcacagatc ttcccttggaa gcaaacccaa gcaggagcct 720
cccatggatc agcttcatt ctgggtcatt atcccagtaa gtggtgctt ggtgctact 780
gcggtagttc tctactgcct gccccgcaga catgtgcga gttggaaaag aacaagaagg 840
aatgaagaga cagtggaaac tggaaaggctg tccccatct acttaggctc tgccaaatcc 900
tcgggctgag 910

<210> 263
<211> 292
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 263
Met Gly His Thr Leu Arg Pro Gly Thr Pro Leu Pro Arg Cys Leu His
1 5 10 15

Leu Lys Leu Cys Leu Leu Ala Leu Ala Gly Leu His Phe Ser Ser
20 25 30

Gly Ile Ser Gln Val Thr Lys Ser Val Lys Glu Met Ala Ala Leu Ser
35 40 45

Cys Asp Tyr Asn Ile Ser Ile Asp Glu Leu Ala Arg Met Arg Ile Tyr
50 55 60

Trp Gln Lys Asp Gln Gln Met Val Leu Ser Ile Ile Ser Gly Gln Val
65 70 75 80

Glu Val Trp Pro Glu Tyr Lys Asn Arg Thr Phe Pro Asp Ile Ile Asn
85 90 95

Asn Leu Ser Leu Met Ile Leu Ala Leu Arg Leu Ser Asp Lys Gly Thr
100 105 110

Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe Arg Arg Glu
115 120 125

His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe Pro Val Pro
130 135 140

Ser Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile Arg Arg Leu Ile
145 150 155 160

Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu Tyr Trp Leu Glu
165 170 175

Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu Ser Gln Asp Pro
180 185 190

Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe Asn Met Thr
195 200 205

Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly Asp Leu Thr Val

210

215

220

Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr Pro Ser Ala Asn
225 230 235 240

Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser Ala Phe Gly Ile
245 250 255

Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr Cys Arg Asn Ala
260 265 270

Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu Met Gln Ser Cys
275 280 285

Ser Gln Ser Pro
290

<210> 264

<211> 296

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 264

Met Gly His Thr Met Glu Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Ala Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175
 Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
 180 185 190
 Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205
 Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
 210 215 220
 Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
 225 230 235 240
 Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
 245 250 255
 Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
 260 265 270
 Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu
 275 280 285
 Met Gln Ser Cys Ser Gln Ser Pro
 290 295

<210> 265
 <211> 295
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 265
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15
 Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30
 Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45
 Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60
 Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80
 Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110
 Ser Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
 115 120 125
 Arg Arg Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp Phe
 130 135 140
 Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile Arg
 145 150 155 160
 Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu Tyr
 165 170 175
 Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu Pro
 180 185 190
 Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe
 195 200 205
 Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly Asp
 210 215 220
 Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr Pro
 225 230 235 240
 Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser Ala
 245 250 255
 Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr Cys
 260 265 270
 Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu Met
 275 280 285
 Gln Ser Cys Ser Gln Ser Pro
 290 295

<210> 266
 <211> 295
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 266
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val

35	40	45
Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu		
50	55	60
Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro		
65	70	75
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp		
85	90	95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp		
100	105	110
Lys Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe		
115	120	125
Arg Arg Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp Phe		
130	135	140
Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile Arg		
145	150	155
Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu Tyr		
165	170	175
Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu Ser		
180	185	190
Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe		
195	200	205
Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly Asp		
210	215	220
Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr Pro		
225	230	235
240		
Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser Ala		
245	250	255
Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr Cys		
260	265	270
Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu Met		
275	280	285
Gln Ser Cys Ser Gln Ser Pro		
290	295	

<210> 267

<211> 296

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 267

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
180 185 190

Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
210 215 220

Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
225 230 235 240

Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
245 250 255

Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
260 265 270

Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu
275 280 285

Met Gln Ser Cys Ser Gln Ser Pro
290 295

<210> 268
<211> 302
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 268
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Lys Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
115 120 125

Arg Arg Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe
130 135 140

Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys
145 150 155 160

Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu Tyr
165 170 175

Trp Leu Glu Asn Gly Glu Leu Asn Ala Thr Asn Thr Thr Val Ser
180 185 190

Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe
195 200 205

Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu
210 215 220

Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro
225 230 235 240

Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala
245 250 255

Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val
260 265 270

Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu
275 280 285

Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 269

<211> 295

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 269

Met Asp His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Lys Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
115 120 125

Arg Arg Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe
130 135 140

Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile Arg
145 150 155 160

Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu Tyr

165	170	175
Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu Ser		
180	185	190
Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe		
195	200	205
Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly Asp		
210	215	220
Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr Pro		
225	230	235
Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser Ala		
245	250	255
Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr Cys		
260	265	270
Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu Met		
275	280	285
Gln Ser Cys Ser Gln Ser Pro		
290	295	

<210> 270

<211> 295

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 270

Met	Gly	His	Thr	Met	Lys	Trp	Gly	Ser	Leu	Pro	Pro	Lys	Arg	Pro	Cys
1				5					10			15			

Leu	Trp	Leu	Ser	Gln	Leu	Leu	Val	Pro	Thr	Gly	Leu	Phe	Tyr	Phe	Cys
					20			25				30			

Ser	Gly	Ile	Thr	Pro	Lys	Ser	Val	Thr	Lys	Arg	Val	Lys	Glu	Thr	Val
						35		40			45				

Met	Leu	Ser	Cys	Asp	Tyr	Asn	Thr	Ser	Thr	Glu	Glu	Leu	Thr	Ser	Leu
						50		55		60					

Arg	Ile	Tyr	Trp	Gln	Lys	Asp	Ser	Lys	Met	Val	Leu	Ala	Ile	Leu	Pro
						65		70		75			80		

Gly	Lys	Val	Gln	Val	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Thr	Asp
						85		90			95				

Met	Asn	Asp	Asn	Pro	Arg	Ile	Val	Ile	Leu	Ala	Leu	Arg	Leu	Ser	Asp
						100		105			110				

Lys Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
115 120 125

Arg Arg Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe
130 135 140

Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile Arg
145 150 155 160

Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu Tyr
165 170 175

Trp Leu Glu Asn Gly Glu Leu Asn Ala Thr Asn Thr Thr Leu Ser
180 185 190

Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp Phe
195 200 205

Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly Asp
210 215 220

Leu Thr Val Ser Gln Thr Leu Tyr Trp Gln Glu Ser Lys Pro Thr Pro
225 230 235 240

Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser Ala
245 250 255

Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr Cys
260 265 270

Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu Met
275 280 285

Gln Ser Cys Ser Gln Ser Pro
290 295

<210> 271

<211> 296

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 271

Met Gly His Thr Val Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Pro Leu Ser Asp
 100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
 115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
 180 185 190

Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
 210 215 220

Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
 225 230 235 240

Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
 245 250 255

Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
 260 265 270

Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu
 275 280 285

Met Gln Ser Cys Ser Gln Ser Pro
 290 295

<210> 272
 <211> 302
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 272

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Ser Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Phe Pro Asp
85 90 95

Ile Ile Asn Asn Leu Ser Leu Met Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Arg Gly Thr Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe
115 120 125

Arg Arg Glu His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe
130 135 140

Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys
145 150 155 160

Arg Ile Arg Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala
165 170 175

Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val Asp
180 185 190

Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Gly Ser Glu Leu Asp Phe
195 200 205

Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu
210 215 220

Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro
225 230 235 240

Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala
245 250 255

Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Arg Arg His Val
260 265 270

Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu
275 280 285

Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly

290

295

300

<210> 273
<211> 867
<212> DNA
<213> Homo sapiens

<400> 273
atggccaca cacggaggca gggAACATCA ccatccaAGT gtccataCCT caatttCttt 60
cagCTtTgg tgctggCTgg tCTtTcTcAc ttCTgttCAG gtgttatCca cgtgaccaAG 120
gaagtGAAAG aagtggcaAC gctgtcCTgt ggtcacaATg tttCTgttGA agagctggca 180
caaactcgca tctactggca aaaggagaAG aaaatggTgc tgactatgat gtctgggac 240
atgaatataAT ggCCCGAGTA caagaACCGG accatCTtTg atatcaCTAA taacCTCTCC 300
attgtgatCC tggCTCTGCG cccatCTgac gaggGCACAT acgagtgtgt tgTTCTGAAG 360
tatgaaaaAG acgCTtTcaa gccccAACAC ctggCTGAAG tgacgttATC agtcaaAGCT 420
gacttCCCTA cacCTAGTAT atCTgACTTT gaaattCCAA cttCTAATAT tagaaggATA 480
atttgCTCAA CCTCTGGAGG tttCTCTGAG CCTCACCTCT CTCGGCTGGA aaatggagaa 540
gaattaaATg ccatcaACAC AACAGTTCC caagatCCTG aaACTGAGCT ctatgCTgtt 600
agcagcaaAC tggattTcaa tatgacaACC aaccACAGCT tcatgTgtCT catcaAGTAT 660
ggacatttaA gagtGAATCA gacCTTcaAC tggAAataCAA ccaAGCAAGA gcatttCCT 720
gataacCTGC tcccATCTG gcccattACCT ttaatCTCAG taaatggAAat tttgtgata 780
tgctgcCTGA CCTACTgCTT tggCCCAAGA tgcagAGAGA gaaggAGGAA tgagAGATTG 840
agaaggAAA gtgtacgccc tGTatGA 867

<210> 274
<211> 867
<212> DNA
<213> Macaca sp.

<400> 274
atggccaca cacggaggca gggAAATATCA ccatccaAGT gtccataCCT caagttCttt 60
cagCTtTgg tgctggCTtg tCTtTcTcAT ttCTgttCAG gtgttatCca cgtgaccaAG 120
gaagtGAAAG aagtggcaAC gctgtcCTgt ggtcacaATg tttCTgttGA agagctggca 180
caaactcgca tctactggca aaaggagaAG aaaatggTgc tgactatgat gtctgggac 240
atgaatataAT ggCCCGAGTA caagaACCGG accatCTtTg atatcaCaaa taacCTCTCC 300
attgtgattC tggCTCTGCG cccatCTgac gaggGCACAT acgagtgtgt tgTTCTGAAG 360
tatgaaaaAG atgCTtTcaa gccccAACAC ctggCTGAAG tgatgTTATC cgtcaaAGCT 420
gacttCCCTA cacCTAGTAT aactgACTCT gaaattCCAC cttCTAACAT tagaaggATA 480
atttgCTCAA ACTCTGGAGG tttCCAGAG CCTCACCTCT CTCGGTTGGA aaatggagaa 540
gaattaaATg ccatcAGCAC AACAGTTCC caagatCCTG aaACTGAGCT ctataCTgtt 600
agcagcaaAC tggattTcaa tatgacaACC aatCACAGCT tcatgTgtCT catcaAGTAT 660
ggacatttaA gagtGAATCA gacCTTcaAC tggAAACACAC ccaAGCAAGA gcatttCCT 720
gataacCTGC tcccATCTG gcccattATC ctaatCTCAG taaatggAAat tttgtgata 780
tgctgcCTGA CCTACTgCTT tggCCCAAGA tgcagAGAGA gaagaaggAA tgagACATTG 840
agaaggAAA gtgtacgccc tGTatGA 867

<210> 275
<211> 888
<212> DNA
<213> Bovine sp.

<400> 275
atgggtcaca caatgaagtG gggAACACTA ccACCCAAAGC gcccATGCCT ctggCTCTCT 60
cagCTtTgg tgctcaCTgg tCTTTTtAC ttCTgttCAG gcatCACCCCC aaAGAGTGTG 120

acccaaaagag taaaagaaaac agtaatgcta tcctgtgatt acaacacatc cactgaagaa 180
ctgacaagcc ttcggatcta ttggcaaaag gatagtaaaa tggtgctggc catcctgcct 240
ggaaaagtgc aggtgtggcc tgaatacacaag aaccgcacca tcactgacat gaacgataac 300
ccccgcattg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
cagaaggctg atttggaaagg ggcttataaa ctggagcacc tgacttcgt gaggtaatg 420
atcagagctg acttccctgt ccctaccata aatgatctt gaaatccatc tcctaataatc 480
agaaggctaa tttgctcaac ctctggaggt tttccaaggc cccacctcta ctgggtggaa 540
aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
tacatgatta gcagtgaact ggatttcaac atgacaagca atcacagctt cttgtgtctt 660
gtcaagtatg gagacttaac agtgtcacag accttctact gcagaagatc caaaccaacc 720
ccttctgcta atcagcacct gacctggacc attattatcc cagtctcagc atttggatt 780
tctgtatca ttgcagttat actaacatgc ctgacctgca gaaatgctgc aatacgcaga 840
cagagaaggg agaatgaagt ggaaatggaa agttgctctc agtctcca 888

<210> 276
<211> 900
<212> DNA
<213> Oryctolagus cuniculus

<400> 276
atgggccaca cgctgaggcc gggactcca ctgcccaggt gtctacacct caagctctgc 60
ctgctcttgg cgctggcggt tctccacttc tcttcaggta tcagccaggt caccaagtcg 120
gtgaaagaaa tggcagcaact gtcctgtat tacaacattt ctatcgatga actggcgaga 180
atgcgcataat actggcagaa ggaccaacaaag atggtgctga gcatcatctc tggcaagtg 240
gaagtgtggc ctgagttacaa gaaccgcacc ttccccgaca tcattaacaa cctccccc 300
atgatcctgg cactgcgcct gtcggacaag ggcacctaca cctgcgttgt tcagaagaat 360
gagaacgggt ctttcagacg ggagcacctg acctccgtga cactgtccat cagagctgac 420
ttccctgtcc ctgcataac tgacatttga catccgacc ctaatgtgaa aaggataaga 480
tgctccgcct ctggaggtt tccagagcc cgcctcgccct ggatggaaaga tggagaagaa 540
ctaaacgcgc tcaacacgcg gttgaccag gattttggaca cggagctcta cagcgtcagc 600
agtgaactgg atttcaatgt gacaaataac cacagcatcg tggatgtcat caaatacggg 660
gagctgtcggt tgcacatgt ctcccttgg agcaaaccac agcaggagcc tcccattgtat 720
cagcttccat tctgggtcat tatccccatgta agtggtgctt tggatgtcatc tgcgttagtt 780
ctctactgccc tggcctgcag acatgttgcg aggtggaaaaaa gaacaagaag gaatgaagag 840
acagtggaa ctgaaaggct gtccccatc tacttaggtt ctgcgcatac ctcggctga 900

<210> 277
<211> 941
<212> DNA
<213> Felis domesticus

<400> 277
atgggtcacg cagcaaagtg gaaaacacca ctactgaagc acccatatcc caagctcttt 60
ccgctcttga tgctagctag tcttttttac ttctgttcag gtatcatcca ggtgaacaag 120
acagtggaaag aagtgcgtgacttactatcgtt gattacaaca ttccacccaa agaactgacg 180
gaaattcggaa tctattggca aaaggatgt gaaatgggtt tggatgtcat gtctggcaaa 240
gtacaagtgtt ggcggcaagta caagaaccgc acattcaactg acgtcaccga taaccactcc 300
attgtatca tggctctgcg cctgtcgac aatggcaaat acactgtat tattcaaaag 360
attggaaaag ggtcttacaa agtggaaacac ctgacttcgg tggatgttatt ggtcagagct 420
gacttccctg tcccttagtat aactgtatcc gaaatccat ctcataacat caaaaggata 480
atgtgcttaa cttctggagg ttccaaag cctcacctct cctggctgga aaatgaagaa 540
gaattaaatg ccatcaacac aacagttcc caagatcctg aaactgagct ctacactatt 600
agcagtgtacg tggatttcaa tatgacaaac aaccatagct tggatgtcat tgcgttagtt 660
ggaaaacttac tagtacaca gatcttcaac tggcaaaaat cagagccaca gccttctaat 720
aatcagctctt ggtcattat cctgagctca gtagtaagtggatgtt gatcactgca 780

cttaccttaa gatgcctagt ccacagacct gctgcaaggt ggagacaaag agaaatgggg 840
agagcgcgga aatggaaaag atctcacctg tctacataga ttctgcagaa ccactgtatg 900
cagagcatct ggaggtagcc tcttagctc ttctctacta g 941

<210> 278
<211> 288
<212> PRT
<213> Homo sapiens

<400> 278
Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1 5 10 15
Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys
20 25 30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
35 40 45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60
Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125
Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140
Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
145 150 155 160
Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190
Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205
Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220
Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
225 230 235 240
Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly

245

250

255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
 260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
 275 280 285

<210> 279
 <211> 288
 <212> PRT
 <213> Macaca sp.

<400> 279
 Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr
 1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Leu Cys
 20 25 30

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140

Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
 145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro Arg Leu Ser Trp Leu
 165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Ser Thr Thr Val Ser Gln Asp
 180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr His Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Thr Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 280

<211> 296

<212> PRT

<213> Bovine sp.

<400> 280

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Leu
180 185 190

Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
195 200 205

Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
210 215 220

Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
225 230 235 240

Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
245 250 255

Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
260 265 270

Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Glu
275 280 285

Met Gln Ser Cys Ser Gln Ser Pro
290 295

<210> 281

<211> 299

<212> PRT

<213> Oryctolagus cuniculus

<400> 281

Met Gly His Thr Leu Arg Pro Gly Thr Pro Leu Pro Arg Cys Leu His
1 5 10 15

Leu Lys Leu Cys Leu Leu Leu Ala Leu Ala Gly Leu His Phe Ser Ser
20 25 30

Gly Ile Ser Gln Val Thr Lys Ser Val Lys Glu Met Ala Ala Leu Ser
35 40 45

Cys Asp Tyr Asn Ile Ser Ile Asp Glu Leu Ala Arg Met Arg Ile Tyr
50 55 60

Trp Gln Lys Asp Gln Gln Met Val Leu Ser Ile Ile Ser Gly Gln Val
65 70 75 80

Glu Val Trp Pro Glu Tyr Lys Asn Arg Thr Phe Pro Asp Ile Ile Asn
85 90 95

Asn Leu Ser Leu Met Ile Leu Ala Leu Arg Leu Ser Asp Lys Gly Thr
100 105 110

Tyr Thr Cys Val Val Gln Lys Asn Glu Asn Gly Ser Phe Arg Arg Glu
115 120 125

His Leu Thr Ser Val Thr Leu Ser Ile Arg Ala Asp Phe Pro Val Pro
130 135 140

Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val Lys Arg Ile Arg
145 150 155 160

Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro Arg Leu Ala Trp Met Glu

165	170	175
Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val Asp Gln Asp Leu		
180	185	190
Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp Phe Asn Val Thr		
195	200	205
Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly Glu Leu Ser Val		
210	215	220
Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu Pro Pro Ile Asp		
225	230	235
240		
Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly Ala Leu Val Leu		
245	250	255
Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His Val Ala Arg Trp		
260	265	270
Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr Glu Arg Leu Ser		
275	280	285
Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	
<210> 282		
<211> 292		
<212> PRT		
<213> Felis domesticus		
<400> 282		
Met Gly His Ala Ala Lys Trp Lys Thr Pro Leu Leu Lys His Pro Tyr		
1	5	10
15		
Pro Lys Leu Phe Pro Leu Leu Met Leu Ala Ser Leu Phe Tyr Phe Cys		
20	25	30
Ser Gly Ile Ile Gln Val Asn Lys Thr Val Glu Glu Val Ala Val Leu		
35	40	45
Ser Cys Asp Tyr Asn Ile Ser Thr Lys Glu Leu Thr Glu Ile Arg Ile		
50	55	60
Tyr Trp Gln Lys Asp Asp Glu Met Val Leu Ala Val Met Ser Gly Lys		
65	70	75
80		
Val Gln Val Trp Pro Lys Tyr Lys Asn Arg Thr Phe Thr Asp Val Thr		
85	90	95
Asp Asn His Ser Ile Val Ile Met Ala Leu Arg Leu Ser Asp Asn Gly		
100	105	110
Lys Tyr Thr Cys Ile Ile Gln Lys Ile Glu Lys Gly Ser Tyr Lys Val		
115	120	125

Lys His Leu Thr Ser Val Met Leu Leu Val Arg Ala Asp Phe Pro Val
 130 135 140
 Pro Ser Ile Thr Asp Leu Gly Asn Pro Ser His Asn Ile Lys Arg Thr
 145 150 155 160
 Met Cys Leu Thr Ser Gly Gly Phe Pro Lys Pro His Leu Ser Trp Leu
 165 170 175
 Glu Asn Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
 180 185 190
 Pro Glu Thr Glu Leu Tyr Thr Ile Ser Ser Glu Leu Asp Phe Asn Met
 195 200 205
 Thr Asn Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly Asn Leu Leu
 210 215 220
 Val Ser Gln Ile Phe Asn Trp Gln Lys Ser Glu Pro Gln Pro Ser Asn
 225 230 235 240
 Asn Gln Leu Trp Ile Ile Leu Ser Ser Val Val Ser Gly Ile Val
 245 250 255
 Val Ile Thr Ala Leu Thr Leu Arg Cys Leu Val His Arg Pro Ala Ala
 260 265 270
 Arg Trp Arg Gln Arg Glu Met Gly Arg Ala Arg Lys Trp Lys Arg Ser
 275 280 285
 His Leu Ser Thr
 290

<210> 283
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Consensus
 sequence

<400> 283
 Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
 20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro

65	70	75	80
Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp			
85	90		95
Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp			
100	105		110
Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala			
115	120		125
Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp			
130	135	140	
Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile			
145	150	155	160
Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu			
165	170		175
Tyr Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val			
180	185		190
Ser Gln Asp Pro Asp Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Asp			
195	200	205	
Phe Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly			
210	215	220	
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu			
225	230	235	240
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly			
245	250		255
Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His			
260	265		270
Val Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr			
275	280	285	
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly			
290	295	300	

<210> 284
 <211> 303
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (6)

<223> Lys or Glu

<220>
<221> MOD_RES
<222> (8)
<223> Arg or Gly

<220>
<221> MOD_RES
<222> (14)
<223> Arg or Cys

<220>
<221> MOD_RES
<222> (18)
<223> Trp or Arg

<220>
<221> MOD_RES
<222> (19)
<223> Pro or Leu

<220>
<221> MOD_RES
<222> (20)
<223> Ser or Pro

<220>
<221> MOD_RES
<222> (27)
<223> Asp or Gly

<220>
<221> MOD_RES
<222> (55)
<223> Asn or Ser

<220>
<221> MOD_RES
<222> (60)
<223> Glu or Lys

<220>
<221> MOD_RES
<222> (69)
<223> Gln or Arg

<220>
<221> MOD_RES
<222> (101)
<223> Pro or Leu

<220>
<221> MOD_RES
<222> (106)
<223> Leu or Gln

<220>
<221> MOD_RES
<222> (110)
<223> Pro or Leu

<220>
<221> MOD_RES
<222> (113)
<223> Lys or Ser

<220>
<221> MOD_RES
<222> (120)
<223> Val or Ile

<220>
<221> MOD_RES
<222> (124)
<223> Val or Asp

<220>
<221> MOD_RES
<222> (135)
<223> Thr or Ala

<220>
<221> MOD_RES
<222> (149)
<223> Thr, Ser or deleted

<220>
<221> MOD_RES
<222> (150)
<223> Ile or deleted

<220>
<221> MOD_RES
<222> (151)
<223> Asn or Thr

<220>
<221> MOD_RES
<222> (167)
<223> Thr or deleted

<220>
<221> MOD_RES
<222> (168)
<223> Ser or deleted

<220>
<221> MOD_RES
<222> (169)
<223> Gly or deleted

<220>
<221> MOD_RES

<222> (177)
<223> Cys or Tyr

<220>
<221> MOD_RES
<222> (192)
<223> Val or Leu

<220>
<221> MOD_RES
<222> (197)
<223> Gly or Glu

<220>
<221> MOD_RES
<222> (199)
<223> Glu or Lys

<220>
<221> MOD_RES
<222> (208)
<223> Gly or Asp

<220>
<221> MOD_RES
<222> (215)
<223> His or Arg

<220>
<221> MOD_RES
<222> (218)
<223> Ala or Val

<220>
<221> MOD_RES
<222> (227)
<223> Ser or Leu

<220>
<221> MOD_RES
<222> (249)
<223> Trp, Leu or Arg

<220>
<221> MOD_RES
<222> (261)
<223> Ala or Thr

<220>
<221> MOD_RES
<222> (263)
<223> Val, Ala or Ile

<220>
<221> MOD_RES
<222> (267)
<223> Arg or Cys

<220>
<221> MOD_RES
<222> (268)
<223> Pro or Leu

<220>
<221> MOD_RES
<222> (273)
<223> Gly or Val

<400> 284
Met Gly His Thr Met Xaa Trp Xaa Ser Leu Pro Pro Lys Xaa Pro Cys
1 5 10 15

Leu Xaa Xaa Xaa Gln Leu Leu Val Leu Thr Xaa Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Xaa Thr Ser Thr Glu Xaa Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Xaa Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Xaa Arg Ile Val Ile Xaa Ala Leu Arg Xaa Ser Asp
100 105 110

Xaa Gly Thr Tyr Thr Cys Val Xaa Gln Lys Pro Xaa Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Xaa Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Xaa Xaa Xaa Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Xaa Xaa Xaa Gly Phe Pro Arg Pro His Leu
165 170 175

Xaa Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Xaa
180 185 190

Ser Gln Asp Pro Xaa Thr Xaa Leu Tyr Met Ile Ser Ser Glu Leu Xaa
195 200 205

Phe Asn Val Thr Asn Asn Xaa Ser Ile Xaa Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Xaa Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Xaa Val Ile Ile Pro Val Ser Gly
245 250 255

Ala Leu Val Leu Xaa Ala Xaa Val Leu Tyr Xaa Xaa Ala Cys Arg His
260 265 270

Xaa Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr
275 280 285

Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly
290 295 300

<210> 285

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 285

Met Gly His Thr Met Lys Trp Arg Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Pro Ser Gln Leu Leu Val Leu Thr Asp Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Pro Ser Asp
100 105 110

Lys Gly Thr Tyr Thr Cys Val Val Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
165 170 175

Cys Trp Leu Glu Asn Gly Glu Glu Leu Asn Ala Thr Asn Thr Thr Val

180	185	190
Ser Gln Asp Pro Gly Thr Glu Leu Tyr Met Ile Ser Ser Glu Leu Gly		
195	200	205
Phe Asn Val Thr Asn Asn His Ser Ile Ala Cys Leu Ile Lys Tyr Gly		
210	215	220
Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu		
225	230	235
240		
Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Pro Val Ser Gly		
245	250	255
Ala Leu Val Leu Ala Ala Val Val Leu Tyr Arg Pro Ala Cys Arg His		
260	265	270
Gly Ala Arg Trp Lys Arg Thr Arg Arg Asn Glu Glu Thr Val Gly Thr		
275	280	285
Glu Arg Leu Ser Pro Ile Tyr Leu Gly Ser Ala Gln Ser Ser Gly		
290	295	300
<210> 286		
<211> 288		
<212> PRT		
<213> Artificial Sequence		
<220>		
<223> Description of Artificial Sequence: Consensus sequence		
<400> 286		
Met Gly His Thr Arg Arg Gln Gly Ile Ser Pro Ser Lys Cys Pro Tyr		
1	5	10
15		
Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Phe Cys		
20	25	30
Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu		
35	40	45
Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile		
50	55	60
His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp		
65	70	75
80		
Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr		
85	90	95
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly		
100	105	110
Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg		
115	120	125

Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 287

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (12)

<223> Ser or Pro

<220>

<221> MOD_RES

<222> (25)

<223> Leu or Met

<220>

<221> MOD_RES

<222> (29)

<223> Ser or Pro

<220>

<221> MOD_RES
<222> (40)
<223> Lys or Arg

<220>
<221> MOD_RES
<222> (122)
<223> Glu or Asp

<220>
<221> MOD_RES
<222> (129)
<223> Glu or Lys

<220>
<221> MOD_RES
<222> (164)
<223> Thr or Ala

<220>
<221> MOD_RES
<222> (196)
<223> Glu or Gly

<220>
<221> MOD_RES
<222> (219)
<223> Lys or Arg

<220>
<221> MOD_RES
<222> (241)
<223> Asp or Asn

<400> 287
Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Xaa Lys Cys Pro Tyr
1 5 10 15

Leu Lys Phe Phe Gln Leu Leu Val Xaa Ala Cys Leu Xaa His Leu Cys
20 25 30

Ser Gly Val Ile His Val Thr Xaa Glu Val Lys Glu Val Ala Thr Leu
35 40 45

Ser Cys Gly Leu Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Xaa Lys Asp Ala Phe Lys Arg

115	120	125
Xaa His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr		
130	135	140
Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile		
145	150	155
Ile Cys Ser Xaa Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu		
165	170	175
Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp		
180	185	190
Pro Glu Thr Xaa Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met		
195	200	205
Thr Ala Asn His Ser Phe Met Cys Leu Ile Xaa Tyr Gly His Leu Arg		
210	215	220
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro		
225	230	235
Xaa Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly		
245	250	255
Ile Phe Val Ile Cys Cys Leu Thr Tyr Arg Phe Ala Pro Arg Cys Arg		
260	265	270
Glu Arg Lys Ser Asn Glu Thr Leu Arg Arg Glu Ser Val Cys Pro Val		
275	280	285
<210> 288		
<211> 288		
<212> PRT		
<213> Artificial Sequence		
<220>		
<223> Description of Artificial Sequence: Synthetic peptide		
<400> 288		
Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Pro Glu Cys Pro Tyr		
1	5	10
Leu Lys Phe Phe Gln Leu Leu Val Met Ala Cys Leu Pro His Leu Cys		
20	25	30
Ser Gly Val Ile His Val Thr Arg Glu Val Lys Glu Val Ala Thr Leu		
35	40	45
Pro Cys Gly Leu Asn Val Ser Val Glu Glu Leu Ala Gln Thr Pro Ile		
50	55	60
His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp		
65	70	75
80		

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr			
85	90	95	
Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly			
100	105	110	
Thr Tyr Glu Cys Val Val Leu Lys Tyr Asp Lys Asp Ala Phe Lys Gln			
115	120	125	
Lys His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr			
130	135	140	
Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Lys Arg Ile			
145	150	155	160
Ile Cys Ser Ala Ser Gly Gly Phe Pro Glu Pro His Leu Phe Gly Leu			
165	170	175	
Glu Asn Gly Glu Glu Ile Asn Ala Ile Asn Thr Thr Val Ser Gln Asp			
180	185	190	
Pro Glu Thr Gly Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met			
195	200	205	
Thr Ala Asp His Asn Phe Met Cys Leu Ile Arg Tyr Gly His Leu Arg			
210	215	220	
Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro			
225	230	235	240
Asn Asn Pro Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly			
245	250	255	
Ile Phe Val Ile Cys Cys Pro Thr Tyr Arg Phe Ala Pro Gly Cys Arg			
260	265	270	
Glu Arg Lys Ser Asn Glu Thr Leu Arg Arg Glu Ser Val Cys Pro Val			
275	280	285	

<210> 289

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 289

Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr			
1	5	10	15

Leu Lys Phe Phe Gln Leu Leu Val Leu Ala Cys Leu Ser His Leu Cys			
20	25	30	

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
 35 40 45

 Ser Cys Gly Leu Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
 50 55 60

 His Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
 65 70 75 80

 Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
 85 90 95

 Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
 100 105 110

 Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
 115 120 125

 Glu His Leu Ala Glu Val Met Leu Ser Val Lys Ala Asp Phe Pro Thr
 130 135 140

 Pro Ser Ile Thr Asp Phe Glu Ile Pro Pro Ser Asn Ile Arg Arg Ile
 145 150 155 160

 Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Phe Trp Leu
 165 170 175

 Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
 180 185 190

 Pro Glu Thr Glu Leu Tyr Thr Val Ser Ser Lys Leu Asp Phe Asn Met
 195 200 205

 Thr Ala Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
 210 215 220

 Val Asn Gln Thr Phe Asn Trp Asn Thr Pro Lys Gln Glu His Phe Pro
 225 230 235 240

 Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Ala Asn Gly
 245 250 255

 Ile Phe Val Ile Cys Cys Leu Thr Tyr Arg Phe Ala Pro Arg Cys Arg
 260 265 270

 Glu Arg Lys Ser Asn Glu Thr Leu Arg Arg Glu Ser Val Cys Pro Val
 275 280 285

<210> 290
 <211> 275
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<220>
<221> MOD_RES
<222> (50)
<223> Leu or Pro

<220>
<221> MOD_RES
<222> (55)
<223> Asn or Ser

<220>
<221> MOD_RES
<222> (56)
<223> Ala or Thr

<220>
<221> MOD_RES
<222> (113)
<223> Ser or Lys

<220>
<221> MOD_RES
<222> (120)
<223> Ile or Val

<220>
<221> MOD_RES
<222> (123)
<223> Pro or deleted

<220>
<221> MOD_RES
<222> (124)
<223> Val, Asn or Asp

<220>
<221> MOD_RES
<222> (125)
<223> Leu or Glu

<220>
<221> MOD_RES
<222> (126)
<223> Lys or Asn

<220>
<221> MOD_RES
<222> (128)
<223> Ala or Ser

<220>
<221> MOD_RES
<222> (129)
<223> Tyr or Phe

<220>

<221> MOD_RES
<222> (130)
<223> Lys or Arg

<220>
<221> MOD_RES
<222> (131)
<223> Leu or Arg

<220>
<221> MOD_RES
<222> (135)
<223> Ala or Thr

<220>
<221> MOD_RES
<222> (138)
<223> Arg or Thr

<220>
<221> MOD_RES
<222> (140)
<223> Met or Ser

<220>
<221> MOD_RES
<222> (170)
<223> Asp or Gly

<220>
<221> MOD_RES
<222> (193)
<223> Asp or deleted

<220>
<221> MOD_RES
<222> (194)
<223> Gln or deleted

<220>
<221> MOD_RES
<222> (195)
<223> Asp or deleted

<220>
<221> MOD_RES
<222> (209)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (211)
<223> Val or Ala

<220>
<221> MOD_RES
<222> (252)

<223> Ile or Val

<220>

<221> MOD_RES

<222> (253)

<223> Leu or Pro

<400> 290

Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Xaa Ser Cys Asp Tyr Xaa Xaa Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Xaa Gly Thr Tyr Thr Cys Val Xaa Gln Lys Xaa Xaa Xaa Gly Xaa
115 120 125

Xaa Xaa Xaa Glu His Leu Xaa Ser Val Xaa Leu Xaa Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val
145 150 155 160

Lys Arg Ile Arg Cys Ser Ala Ser Gly Xaa Phe Pro Glu Pro Arg Leu
165 170 175

Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
180 185 190

Xaa Xaa Xaa Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
195 200 205

Xaa Asn Xaa Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Xaa Xaa Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His

260

265

270

Val Ala Arg
275

<210> 291
<211> 275
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 291
Met Gly His Thr Met Lys Trp Gly Ser Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Asn Ala Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Val Leu Lys Gly Ala
115 120 125

Tyr Lys Leu Glu His Leu Ala Ser Val Arg Leu Met Ile Arg Ala Asp
130 135 140

Phe Pro Val Pro Ser Ile Thr Asp Ile Gly His Pro Ala Pro Asn Val
145 150 155 160

Lys Arg Ile Arg Cys Ser Ala Ser Gly Asp Phe Pro Glu Pro Arg Leu
165 170 175

Ala Trp Met Glu Asp Gly Glu Glu Leu Asn Ala Val Asn Thr Thr Val
180 185 190

Asp Gln Asp Leu Asp Thr Glu Leu Tyr Ser Val Ser Ser Glu Leu Asp
195 200 205

Ser Asn Val Thr Asn Asn His Ser Ile Val Cys Leu Ile Lys Tyr Gly
210 215 220

Glu Leu Ser Val Ser Gln Ile Phe Pro Trp Ser Lys Pro Lys Gln Glu
225 230 235 240

Pro Pro Ile Asp Gln Leu Pro Phe Trp Val Ile Ile Leu Val Ser Gly
245 250 255

Ala Leu Val Leu Thr Ala Val Val Leu Tyr Cys Leu Ala Cys Arg His
260 265 270

Val Ala Arg
275

<210> 292
<211> 296
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (9)
<223> Thr or Ser

<220>
<221> MOD_RES
<222> (35)
<223> Ile or Thr

<220>
<221> MOD_RES
<222> (55)
<223> Asn or Ser

<220>
<221> MOD_RES
<222> (110)
<223> Leu or Pro

<220>
<221> MOD_RES
<222> (124)
<223> Asp or Val

<220>
<221> MOD_RES
<222> (135)
<223> Thr or Ala

<220>
<221> MOD_RES
<222> (183)
<223> Lys or Glu

<220>
<221> MOD_RES
<222> (192)
<223> Leu or Val

<220>
<221> MOD_RES
<222> (211)
<223> Met or Thr

<220>
<221> MOD_RES
<222> (215)
<223> His or deleted

<220>
<221> MOD_RES
<222> (216)
<223> Ser or deleted

<220>
<221> MOD_RES
<222> (217)
<223> Phe or deleted

<220>
<221> MOD_RES
<222> (231)
<223> Thr or Ser

<220>
<221> MOD_RES
<222> (288)
<223> Lys or Glu

<220>
<221> MOD_RES
<222> (290)
<223> Glu or Gln

<400> 292
Met Gly His Thr Met Lys Trp Gly Xaa Leu Pro Pro Lys Arg Pro Cys
1 5 10 15

Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys
20 25 30

Ser Gly Xaa Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
35 40 45

Met Leu Ser Cys Asp Tyr Xaa Thr Ser Thr Glu Glu Leu Thr Ser Leu
50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95
 Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Xaa Ser Asp
 100 105 110
 Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Xaa Leu Lys Gly Ala
 115 120 125
 Tyr Lys Leu Glu His Leu Xaa Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140
 Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160
 Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175
 Tyr Trp Leu Glu Asn Gly Xaa Glu Leu Asn Ala Thr Asn Thr Thr Xaa
 180 185 190
 Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205
 Phe Asn Xaa Thr Ser Asn Xaa Xaa Xaa Leu Cys Leu Val Lys Tyr Gly
 210 215 220
 Asp Leu Thr Val Ser Gln Xaa Phe Tyr Trp Gln Glu Ser Lys Pro Thr
 225 230 235 240
 Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
 245 250 255
 Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
 260 265 270
 Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Xaa
 275 280 285
 Met Xaa Ser Cys Ser Gln Ser Pro
 290 295

<210> 293
 <211> 296
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 293
 Met Gly His Thr Met Lys Trp Gly Thr Leu Pro Pro Lys Arg Pro Cys
 1 5 10 15
 Leu Trp Leu Ser Gln Leu Leu Val Leu Thr Gly Leu Phe Tyr Phe Cys

20

25

30

Ser Gly Ile Thr Pro Lys Ser Val Thr Lys Arg Val Lys Glu Thr Val
 35 40 45

Met Leu Ser Cys Asp Tyr Asn Thr Ser Thr Glu Glu Leu Thr Ser Leu
 50 55 60

Arg Ile Tyr Trp Gln Lys Asp Ser Lys Met Val Leu Ala Ile Leu Pro
 65 70 75 80

Gly Lys Val Gln Val Trp Pro Glu Tyr Lys Asn Arg Thr Ile Thr Asp
 85 90 95

Met Asn Asp Asn Pro Arg Ile Val Ile Leu Ala Leu Arg Leu Ser Asp
 100 105 110

Ser Gly Thr Tyr Thr Cys Val Ile Gln Lys Pro Asp Leu Lys Gly Ala
 115 120 125

Tyr Lys Leu Glu His Leu Thr Ser Val Arg Leu Met Ile Arg Ala Asp
 130 135 140

Phe Pro Val Pro Thr Ile Asn Asp Leu Gly Asn Pro Ser Pro Asn Ile
 145 150 155 160

Arg Arg Leu Ile Cys Ser Thr Ser Gly Gly Phe Pro Arg Pro His Leu
 165 170 175

Tyr Trp Leu Glu Asn Gly Lys Glu Leu Asn Ala Thr Asn Thr Thr Leu
 180 185 190

Ser Gln Asp Pro Glu Thr Lys Leu Tyr Met Ile Ser Ser Glu Leu Asp
 195 200 205

Phe Asn Met Thr Ser Asn His Ser Phe Leu Cys Leu Val Lys Tyr Gly
 210 215 220

Asp Leu Thr Val Ser Gln Thr Phe Tyr Trp Gln Glu Ser Lys Pro Thr
 225 230 235 240

Pro Ser Ala Asn Gln His Leu Thr Trp Thr Ile Ile Ile Pro Val Ser
 245 250 255

Ala Phe Gly Ile Ser Val Ile Ile Ala Val Ile Leu Thr Cys Leu Thr
 260 265 270

Cys Arg Asn Ala Ala Ile Arg Arg Gln Arg Arg Glu Asn Glu Val Lys
 275 280 285

Met Glu Ser Cys Ser Gln Ser Pro
 290 295

<210> 294
 <211> 26
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 294

Asn Lys Asp Ser Lys Met Val Val Ala Ile Leu Pro Gly Lys Val Gln
1 5 10 15

Val Phe Pro Glu Tyr Lys Asn Lys Thr Ile
20 25

<210> 295

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 295

Gln Lys Asp Ala Lys Met Val Leu Ala Ile Leu Pro Gly Arg Val Gln
1 5 10 15

Met Trp Pro Glu Tyr Lys Gln Arg Thr Ile
20 25

<210> 296

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic FLAG tag

<400> 296

Asp Tyr Lys Asp Asp Asp Asp Lys
1 5

<210> 297

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Illustrative conserved peptide

<400> 297

Met Tyr Pro Pro Pro Tyr
1 5

<210> 298
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Illustrative
non-dimerizing Ig-Fc domain

<400> 298
Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10

<210> 299
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Poly-His tag

<400> 299
His His His His His His
1 5

<210> 300
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Illustrative
factor Xa cleavage site

<400> 300
Ile Glu Gly Arg
1

<210> 301
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 301
Pro Lys Ser Ser Asp Lys Thr His Thr Ser Pro Pro Ser Pro
1 5 10

<210> 302
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 302
acacatagcg ccggcgctag ctgagcaaaa ggccagcaaa aggcca 46

<210> 303
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 303
aactctgtga gacaacagtc ataaatgtac agatatcaga ccaagttac tcataatatac 60

<210> 304
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 304
ggcttctcac agagtggcgc gccgtgtctc aaaatctct 39

<210> 305
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 305
ttgctcagct agcgccggcg ccgtcccgtc aagtcaagct 40

<210> 306
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 306

agatctgttt aaaccgctga tcagcctcga ctgtgccttc 40

<210> 307
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 307
acctctaacc actctgtgag aagccataga gcccaccgca 40

<210> 308
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 308
ggatccggta cctctagaga attcggcggc cgccagatctg tttaaaccgc tga 53

<210> 309
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 309
ggatccactc atctagaaca atggtagccaa tacgaattcg gcggccgcag atctgtttaa 60
acc 63

<210> 310
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Consensus
terminator sequence

<400> 310
atcaaaaatta ggaaga 16

<210> 311
<211> 15
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Illustrative
silent variation oligonucleotide

<400> 311

atgggacata cgatg

15

<210> 312

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Illustrative
peptide

<400> 312

Leu Tyr Pro Pro Pro Pro Tyr

1

5